

A Catalogue of the Fishes of Japan

By

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This memoir consists of a list of the species known to inhabit the waters of Japan, exclusive of the Riukiu Islands on the south, but including the Kuril Islands on the north. The Kuril Islands have the same general fauna as northern Hokkaidō, while the fauna of Riukiu is distinctly tropical, its species being largely the same as those of Formosa and the Philippines and therefore greatly different from those of the four great islands, Honshū, Hokkaidō, Shikoku and Kiusiu, which constitute Japan proper.

This paper is based primarily on the collections obtained by Professors JORDAN and SNYDER in Japan in 1900, on those obtained by Professor SNYDER in 1906, and on the collections in the Tōkyō Imperial University and those of the Tōkyō Imperial Museum.

The first systematic catalogue of the fishes known from Japan is contained in the great work of TEMMINCK and SCHLEGEL, published at Leyden from 1842 to 1850. This finely illustrated volume contains full accounts of the specimens obtained by BÜRGER in the vicinity of Nagasaki, with excellent copper plates of most of the species. Subsequently many species were described by GÜNTHER from the British

Museum collections, by HILGENDORF from collections made by himself about Tōkyō, and by STEINDACHNER and DÖDERLEIN from collections made by the latter naturalist about Tōkyō, Kōchi and Kagoshima. Two local catalogues were published by Japanese authors, the one by NAMIYE in 1881 (Classified Catalogue of the Specimens of Vertebrates in the Collections of the Educational Museum) and the other by ISHIKAWA and MATSUURA in 1897 (Preliminary Catalogue of Fishes, including Dipnoi, Cyclostomi and Cephalochorda in the Collection of the Natural History Department, Imperial Museum). In 1901, all these scattered records were gathered together as a Preliminary Check List of the Fishes of Japan by JORDAN and SNYDER published in the *Annotationes Zoologicae Japonenses* of the Tōkyō Zoological Society. In that Check List, 686 species were included, many of them only nominally known and many not really belonging to the fauna of Japan proper. In the same year Professors JORDAN and SNYDER visited Japan, making large collections at various points from Otaru to Nagasaki. The results of this exploration, including over 250 species not previously recorded from Japan, have been made known in a series of memoirs in the *Proceedings of the United States National Museum*, written by Dr. JORDAN with the aid of his associates, GILBERT, SNYDER, STARKS, RICHARDSON, FOWLER, HERRE, SEALE and THOMPSON. These papers will give Japanese workers a basis for local studies in bringing together the scattered literature of the subject and indicating the names the different species should properly bear under the rules of nomenclature accepted by the zoologists of the world. A second expedition under direction of Professors GILBERT and SNYDER in charge of the steamer "Albatross" was made in 1906. Of the specimens obtained, only the shore species have been thus far recorded. The deep-sea species, upwards of 200 in number, are yet to be recorded by Professor GILBERT.

Since 1906, numerous papers have been written on Japanese fishes. Dr. SCHMIDT of St. Petersburg has described his collections from the Ochotsk Sea. Dr. BASHFORD DEAN has written on collections from Misaki, Sagami. Specimens obtained by the veteran collector, Mr. ALAN OWSTON of Yokohama, have been described in various museums of the

world by TANAKA, GARMAN, PIETSCHMANN, HUSSAKOF and others. Many species have been described in Japan by ISHIKAWA, KISHINOUE, TANAKA, ÔTAKI, MATSUBARA and NAKAGAWA. The specimens in the British Museum have been studied by REGAN. The collections of Dr. HUGH M. SMITH have been recorded in Washington by SMITH and POPE. Very recently, Dr. FRANZ has described the extensive collections made by Dr. DOFLEIN.

In the present catalogue, all these records have been brought together to the date of February 1, 1913. The number of species included in this list is 1230.

The fish fauna of Japan is one of extraordinary richness. Many additional species from the tropics will be found to drift northward in the Kuroshiwo. The deep-sea fauna is for the most part, as above indicated, yet to be made known, and large accessions of subarctic species will appear on more extensive explorations of Hokkaidō.

In this catalogue, Japanese names have been attached to nearly all the species. It scarcely needs to be pointed out that, in the vernacular, one and the same fish species has often several names, that it may have different names in different localities, or that the same name may have locally different applications. Where more than one Japanese name are given to a species, the one mentioned first is that which is most generally in use. Locality name in parenthesis and affixed to a Japanese fish name indicates where that name is commonly used for the species concerned. In the cases of species for which no vernacular name apparently exists, attempts were made to introduce one, for the convenience of those to whom scientific names are of no avail.

The illustrations used are all taken from the several papers in which Japanese fishes have been published in the United States, especially from those which appeared in the Proceedings of the United States National Museum, in the Bulletin of the Bureau of Fisheries and in JORDAN and EVERMANN's Fishes of North and Middle America. The insertion of those figures, it is hoped, will greatly augment the usefulness of the catalogue.

SHIGEHO TANAKA.

Class LEPTOCARDII.

Order AMPHIOXI.

Family BRANCHIOSTOMIDÆ.

Genus *Branchiostoma* Costa.

Branchiostoma Costa, Cenni Zoologici Napol., 1834, p. 49.

Amphioxus Yarrell, British Fishes, 1836, p. 468 (*Limax lanceolatus* Pallas).

Type *Branchiostoma lubricum* Costa = *Limax lanceolatus* Pallas.

1. *Branchiostoma belcheri* Gray.

Namekuji-uwo (Misaki, Sagami).

Amphioxus belcheri Gray, Proc. Zool. Soc. London, 1847, p. 35. Bass Straits.

Branchiostoma belcheri japonicus Andrews, Zool. Anzeiger, XVIII, 1895, p. 57. Shikajima near Fukuoka.

Branchiostoma nakagawae Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 726. Misaki, Sagami.

Distrib.—Sandy coasts of Japan, from Misaki, Sagami to Kiusiu ; Bass Straits.

Class MARSIPOBRANCHII.

Order HYPEROTRETI.

Family EPTATRETIDÆ.

Genus *Eptatretus* Duméril.

Eptatretus (Duméril) Cloquet, Dict. Sci. Nat., XV, 1819, p. 134.

Type *Eptatretus dombeyi* Duméril = *Gastrobranchus dombeyi* Lacépède.

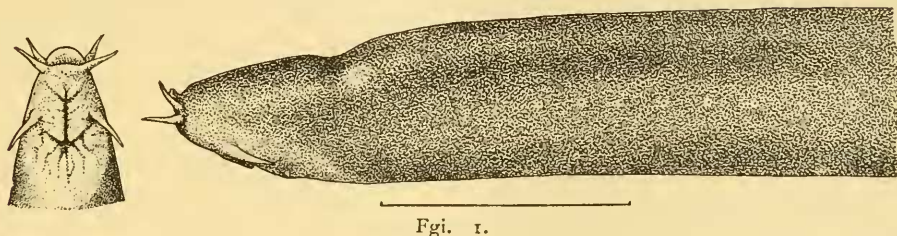
2. *Eptatretus burgeri* (Girard). (Fig. 1).

Nutaunagi (Ōimura, Musashi).

Heptatrema cirrhatum Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 310, pl. CXLIII. Nagasaki. (Not *Petromyzon cirrhatus* Forster from South Africa).

Bdellostoma burgeri Girard, Proc. Ac. Nat. Sci. Phila., 1854, p. 199. After Temminck & Schlegel.

Distrib.—Coasts of Japan from Tōkyō southward, not rare.



3. *Eptatretus okinoseanus* (Dean).

Murasaki-mekuraunagi.

Homca okinoseana Dean, Jour. Coll. Sci. Tokyo, XIX, Jan. 28, 1904, pp. 8, 20, pl. 1, figs. 1, 2, text figs. Off Misaki, Sagami.

Distrib.—Sagami Sea.

Family MYXINIDÆ.

Genus *Myxine* Linnæus.

Myxine Linnæus, Syst. Nat., 10th ed., 1758, p. 650.

Type *Myxine glutinosa* Linnæus.

4. *Myxine garmani* Jordan & Snyder. (Fig. 2).

Mekuraunagi (Tōkyō Market).

Myxine garmani Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 731. Misaki, Sagami.

Distrib.—Sagami Sea.

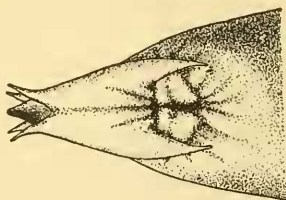


Fig. 2.

Genus *Paramyxine* Dean.

Paramyxine Dean, Jour. Coll. Sci. Tokyo, XIX, Jan. 28, 1904.

Type *Paramyxine atami* Dean.

5. *Paramyxine atami* Dean.

Kuro-mekuraunagi.

Paramyxine atami Dean, Jour. Coll. Sci. Tokyo, XIX, Jan. 28, 1904, pp. 14, 22. Off Atami, Idzu.

Distrib.—Sagami Sea.

Order HYPEROARTII.

Family PETROMYZONIDÆ.

Genus *Entosphenus* Gill.*Entosphenus* Gill, Proc. Ac. Nat. Sci. Phila., 1862, p. 231.Type *Petromyzon tridentatus* Richardson.6. *Entosphenus japonicus* (Martens).

Kawayatsume ; Yatsume ; Yatsumeunagi ; Nanatsume (Prov. Inaba).

Petromyzon japonicus Martens, Archiv. Naturg., XXXIV, 1868, p. 3. Japan.

Distrib.—Northern Asia ; Northern Japan.

Genus *Lampetra* Gray.*Lampetra* Gray, Proc. Zool. Soc. London, 1851, p. 235.Type *Petromyzon fluviatilis* Linnæus.7. *Lampetra planeri* (Bloch).

Sunayatsume (Gifu ; Prov. Shinano) ; Tsuchikujiri (Prov. Kaga) ; Sunahojiri (Nanao, Noto) ; Kageyatsume (River Aka, Echigo) ; Gina, Ginami, Giname, Ginayatsume, or Suigina (Prov. Shinano) ; Meku (River Tama, Musashi) ; Mekuraunagi (Saga, Hizen).

Petromyzon branchialis Linnæus, Syst. Nat., 10th ed., 1758, p. 230. Sweden.

Larva.

Petromyzon planeri Bloch, Fisch. Deutschl., III, 1782, p. 47, taf. 78, fig. 3. Germany.*Lampetra mitsukurii* Hatta, Annot. Zool. Japan., IV, No. 1, Aug. 23, 1901, p. 24. Hokkaidō ; Hondō.

Distrib.—North America, Europe, Asia and almost all parts of Japan.

Class PISCES.

Subclass SELACHII.

Order DIPLOSPONDYLI.

Family HEXANCHIDÆ.

Genus *Heptranchias* Rafinesque.*Heptranchias* Rafinesque, Caratteri, 1810, p. 14.Type *Squalus cinereus* Gmelin.8. *Heptranchias deani* Jordan & Starks.

Aburazame (Tōkyō Market; Misaki, Sagami).

Heptranchias deani Jordan & Starks, Proc. Cal. Acad. Sci., 1901, p. 348.

Misaki, Sagami. (Perhaps identical with the next).

Distrib.—Southern Japan.

9. *Heptranchias maculatus* (Ayres).

Ebisuzame.

Notorhynchus maculatus Ayres, Proc. Cal. Ac. Sci., 1856, I, p. 72. San Francisco.

Distrib.—Sagami Sea; Pacific coast of North America.

Genus *Hexanchus* Rafinesque.*Hexanchus* Rafinesque, Caratteri, 1810, p. 14.Type *Squalus griseus* Gmelin.10. *Hexanchus corinus* Jordan & Gilbert.

Kagura.

Hexanchus corinus Jordan & Gilbert, Proc. U. S. Nat. Mus., 1880, p. 352.Neah Bay; Soquel and Bay of Monterey, California. (Perhaps identical with the European *Hexanchus griseus*).

Distrib.—Sagami Sea; Pacific Coast of North America.

Family CHLAMYDOSELACHIDÆ.

Genus *Chlamydoselachus* Garman.*Chlamydoselachus* Garman, Bull. Essex Inst, Jan. 17, 1884, p. 47.Type *Chlamydoselachus anguineus* Garman.

11. *Chlamydoselachus anguineus* Garman.**Rabuka** (Tōkyō Market ; Misaki, Sagami).*Chlamydoselachus anguineus* Garman, Bull. Essex Inst., Jan. 17, 1884, p. 47, with figs. Japanese seas.

Distrib.—Kuroshiwo ("Black Current"), off Idzu, Sagami and Awa (Bōshū) on the east coast of Japan ; off Madeira ; off Norway.

Order ASTEROSPONDYLI.**Family HETERODONTIDÆ.****Genus *Heterodontus* Blainville.***Heterodontus* Blainville, Nouv. Bull. Scien., 1816, p. 121.Type *Squalus phillippi* Schneider.**12. *Heterodontus japonicus* (Duméril).****Nekozame** (Tōkyō Market ; Misaki, Sagami) ; **Sazaewari** (Prov. Shima ; Ōsaka ; Prov. Tosa) ; **Sazaiwari** (Nagasaki).*Heterodontus phillipi* var. *japonicus* Duméril, Hist. Nat. Poiss., I, 1865. p. 424. Japan.

Distrib.—Southern Japan.

Family SCYLLIORHINIDÆ.**Genus *Proscyllium* Hilgendorf.***Proscyllium* Hilgendorf, S. B. Ges. naturf. Berlin, 1904, p. 39.Type *Proscyllium haberi* Hilgendorf.**13. *Proscyllium haberi* Hilgendorf.****Taiwanzame.***Proscyllium haberi* Hilgendorf, S. B. Ges. naturf. Berlin, 1904, p. 39. Formosa.

Distrib.—Kagoshima ; Formosa.

Genus *Chiloscyllium* Müller & Henle.*Chiloscyllium* Müller & Henle, Plagiostomen, 1841, p. 17.Type *Scyllium plagiosum* Bennett = *Squalus indicus* Gmelin.

14. *Chiloscyllium indicum* (Gmelin). (Fig. 3).

Tenjikuzame.

Squalus indicus Gmelin, Syst. Nat. I, 1788, p. 1503. Indian Ocean. (After Gronow).

Distrib.—Coasts of China and Formosa ; Nagasaki.

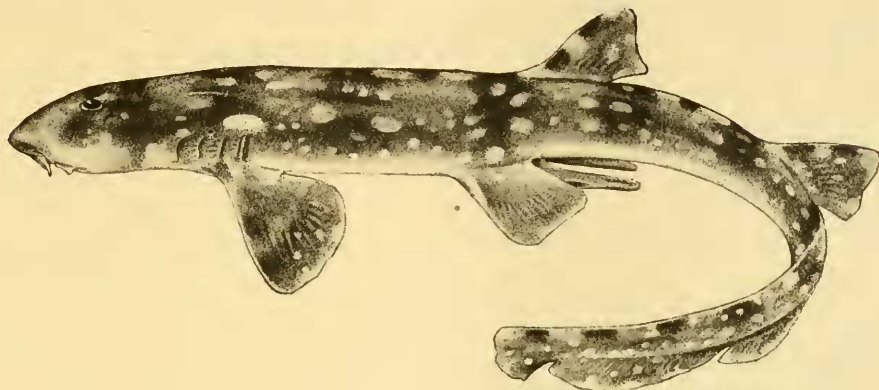


Fig. 3.

Genus *Cephaloscyllium* Gill.*Cephaloscyllium* Gill, Am. Lyc. Nat. Hist., N. Y., 1861, p. 407.Type *Scyllium laticeps* Duméril.15. *Cephaloscyllium umbratile* Jordan & Fowler. (Fig. 4).

Nanukazame ; Ōseibuka.

Cephaloscyllium laticeps Nyström, Kong. Svensk. Vet. Ak., 1887, p. 49. Nagasaki. (Not *Scyllium laticeps* Duméril).*Cephaloscyllium umbratile* Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 602, fig. 1. Nagasaki.

Distrib.—Nagasaki ; Sagami Sea.



Fig. 4.

Genus *Halaelurus* Gill.*Halaelurus* Gill, Ann. Lyc. Nat. Hist. N. Y., 1861, p. 407.Type *Scyllium bürgeri* Müller & Henle.

16. *Halaelurus bürgeri* (Müller & Henle).

Nagasaki-torazame ; Tora (Nagasaki) ; Yamuri-nōsō (Nagasaki).

Scyllium bürgeri Müller & Henle, Plagiostomen, 1865, p. 8, pl. II. Nagasaki.
Distrib.—Nagasaki to Amboyna.

17. *Halaelurus torazame* (Tanaka).

Torazame (Misaki, Sagami) ; Nanukazame (Tōkyō Market) ; Neko-zame (Tōkyō Market).

Catulus torazame Tanaka, Jour. Coll. Sci., Tokyo, XXIII, Art. 7, March 15, 1908, p. 6. Misaki, Sagami.

Scylliorhinus rudis Pietschmann, Anz. K. Akad. Wiss. Wien, X, March 19, 1908, p. 133. Japan.

Distrib.—Sagami sea, not rare ; Hakodate (Snyder ms.).

Genus *Scylliorhinus* Blainville.

Scylliorhinus Blainville, Jour. Phys., 1816, p. 263.

Type *Squalus canicula* Linnæus.

18. *Scylliorhinus macrorhynchus* Tanaka.

Naga-herazame.

Scylliorhinus macrorhynchus Tanaka, Jour. Coll. Sci., Tokyo, XXVII, Art. 8, Oct. 10, 1909, p. 1. Misaki, Sagami.

Distrib.—Sagami Sea.

19. *Scylliorhinus platyrhynchus* Tanaka.

Herazame.

Scylliorhinus platyrhynchus Tanaka, Jour. Coll. Sci., Tokyo, XXVII, Art. 8, 1909, p. 4. Misaki, Sagami.

Distrib.—Sagami Sea.

Genus *Stegostoma* Müller & Henle.

Stegostoma Müller & Henle, Plagiostomen, 1841, p. 24.

Type *Stegostoma fasciatum* Müller & Henle = *Squalus tigrinus* Gmelin.

20. *Stegostoma tigrinum* (Gmelin).

Torafu-zame.

Squalus tigrinus Gmelin, I, 1788, p. 1493. Indian Ocean.

Distrib.—Prov. Shima ; Formosa to Indian Seas.

Genus *Pristiurus* Bonaparte.

Pristiurus Bonaparte, Fauna Italica, Pesci, 1836. (Not paged).

Parmaturus Garman, Bull. Mus. Comp. Zool. Harvard, XLVI, No. 11, Jan. 1906, p. 203. (*Parmaturus pilosus* Garman).
Type *Galus mclastomus* Rafinesque.

21. *Pristiurus eastmani* Jordan & Snyder.

Gaikotsuzame (Misaki, Sagami); **Gobōzame.**

Pristiurus eastmani Jordan & Snyder, Smiths. Misc. Coll., 45, April 11, 1904, p. 230, pl. LX. Off Idzu.
Distrib.—Southern Japan.

22. *Pristiurus pilosus* (Garman).

Shusuzame.

Parmaturus pilosus Garman, Bull. Mus. Comp. Zool. Harvard Coll., XLVI, No. 11, Jan. 1906, p. 204. Off Sagami.
Distrib.—Sagami Sea.

Genus *Orectolobus* Bonaparte.

Orectolobus Bonaparte, Faun. Ital. Pesc., 7 fasc., 1834. p. 11.
Type *Squalus barbatus* Gmelin.

23. *Orectolobus japonicus* Regan.

Kirinotobuka (Tōkyō Market).

Orectolobus japonicus Regan, Ann. Mag. Nat. Hist., Dec. 1906, p. 435. Japan.
Distrib.—Coasts of Japan and China.

Family GALEIDÆ.**Genus *Cynias* Gill.**

Cynias Gill, Proc. U. S. Nat. Mus., 1903, p. 960.
Type *Squalus canis* Mitchell.

24. *Cynias manazo* (Bleeker).

Hoshizame (Tōkyō Market; Misaki, Sagami); **Manōso** (Nagasaki); **Hoshinokuri** (Kagoshima).

Mustelus manazo Bleeker, Verh. Bat. Gen., XXVI, 1854, p. 126. Nagasaki.
Distrib.—Hakodate to Kagoshima.

25. *Cynias griseus* (Pietschmann).**Inuzame.**

Mustelus griseus Pietschmann, Anz. K. Akad. Wiss. Wien, X, March 19, 1908, p. 132. Japan.

Distrib.—Japan.

Genus *Triakis* Müller & Henle.

Triakis Müller & Henle, Magazine of Nat. Hist., II, 1838, p. 36.

Type *Triakis scyllium* Müller & Henle.

26. *Triakis scyllium* Müller & Henle.

Dochizame (Misaki, Sagami); **Yamori** (Tōkyō Market).

Triakis scyllium Müller & Henle, Plagiostomen, 1841, p. 63, pl. XXVI. Nagasaki.

Distrib.—Coasts of southern Japan; rather common in the Inland Sea.

Genus *Galeorhinus* Blainville.

Galeorhinus Blainville, Bull. Sci. Philom., 1816, p. 121.

Galeus Rafinesque, Caratteri Alcuni Nuovi Generi, 1810, p. 13. (In part, without mention of species).

Type *Squalus galeus* Linnæus.

27. *Galeorhinus japonicus* (Müller & Henle).**Yeirakufuka.**

Galeus japonicus Müller & Henle, Plagiostomen, 1841, p. 58, pl. XXII. Nagasaki.

Distrib.—Southern Japan.

Genus *Galeocerdo* Müller & Henle.

Galeocerdo Müller & Henle, Plagiostomen, 1841, p. 59.

Type *Galeocerdo tigrinus* Müller & Henle.

28. *Galeocerdo tigrinus* Müller & Henle.**Itachizame.**

Galeocerdo tigrinus Müller & Henle, Plagiostomen, 1841, p. 59. Pondicherry.

Distrib.—East Indies, rarely northward to southern Japan.

Genus *Prionace* Cantor.

Prionodon Müller & Henle, Plagiostomen, 1841, p. 36. (*Squalus glaucus* Linnaeus, etc. The generic name *Prionodon* preoccupied).

Prionace Cantor, Malayan Fishes, 1850, p. 399. (Substitute for *Prionodon*).

Type *Squalus glaucus* Linnaeus.

29. *Prionace glauca* (Linnaeus). (Fig. 5).

Yoshikiri (Tōkyō Market ; Misaki, Sagami).

Squalus glaucus Linnaeus, Syst. Nat., 10th ed., 1758, p. 235. Europe.

Distrib.—Europe ; Brazil ; San Francisco ; New Zealand ; Indian Seas ; Japan.

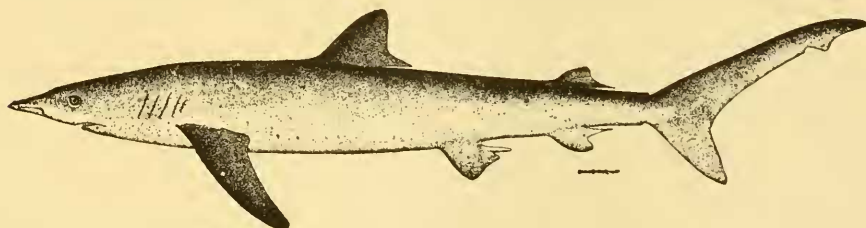


Fig. 5.

Genus *Carcharhinus* Blainville.

Carcharias Rafinesque, Caratteri Alcuni, Nuovi Generi, X 1810, p. 10.
(Without mention of species).

Carcharhinus Blainville, Journ. Phys., 1816, p. 264.

Type *Squalus carcharias* Lacépède (not Linnaeus) = *Carcharias lamia* Rafinesque = *Carcharhinus commersoni* Blainville.

30. *Carcharhinus japonicus* (Temminck & Schlegel).

Mejiro ; Wanizame ; Shirafu-ka (Nagasaki).

Carcharias (*Prionodon*) *japonicus* Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 302. Nagasaki.

Distrib.—Southern Japan.

31. *Carcharhinus tjutjot* (Bleeker).

Mareizame.

Carcharias (*Prionodon*) *tjutjot* Bleeker, Verh. Bat. Gen., XXIV, 1852, p. 36, pl. I, fig. 4. Batavia (Perhaps not separable from *Carcharias menisorrah* Müller & Henle).

Distrib.—Japan to Indian Seas.

Genus Aprionodon Gill.

Aprion Müller & Henle, Plagiostomen, 1838, p. 32. (*Carcharias* (*Aprion*) *isodon* Müller & Henle. The name *Aprion* preoccupied).

Aprionodon Gill, Ann. Lyc. Nat. Hist. N. Y., VII, 1861, p. 401, 411.

Type *Carcharias* (*Aprion*) *isodon* Müller & Henle.

32. Aprionodon brevipinna (Müller & Henle).

Hanazame.

Carcharias (*Aprion*) *brevipinna* Müller & Henle, 1841, p. 31, pl. 9. Java.

Distrib.—Java to Japan.

Genus Scoliodon Müller & Henle.

Scoliodon Müller & Henle, Wiegmann's Archiv von Naturg, 1837, I, p. 397.

Type *Carcharias* (*Scoliodon*) *laticaudatus* Müller & Henle.

33. Scoliodon walbeehmi (Bleeker).

Ankōzame.

Carcharias (*Scoliodon*) *walbeehmi* Bleeker, Nat. Tyds. Ned. Ind., X, 1856, p. 353. Bintang.

Distrib.—Indian Seas to Southern Japan.

Family SPHYRNIDÆ.**Genus Sphyrna Rafinesque.**

Sphyrna Rafinesque, Indice d'Ittiol., Siciliana, 1810, p. 60.

Type *Squalus zygzæna* Linnæus.

34. Sphyrna zygzæna (Linnæus).

Shumokuzame (Tōkyō; Misaki, Sagami); **Kasebuka** (Ōsaka; Prov. Tosa).

Squalus zygzæna Linnæus, Syst. Nat., 10th ed., 1758, p. 234. Europe; America.

Distrib.—Found in all warm seas; occasionally northward to California, Massachusetts, and France; rather common in Japan, as far northward as Tōkyō.

Family ALOPIIDÆ.**Genus Alopias Rafinesque.**

Alopius Rafinesque, Caratteri di Alcuni Generi, 1810, p. 12.

Type *Alopias macrourus* Rafinesque = *Squalus vulpes* Gmelin.

35. *Alopias vulpes* (Gmelin). (Fig. 6).*Onagazame* (Tōkyō; Misaki, Sagami); *Nadebuka*; *Nezumizame*.*Squalus vulpes* Gmelin, Syst. Nat., I, 1788, p. 1496. Mediterranean. (After Pennant).

Distrib.—Abounding in all warm seas; common on the east coast of Japan.

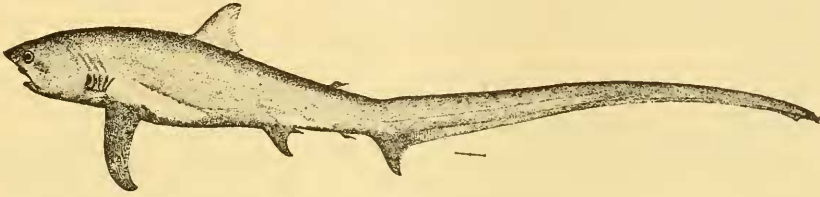


Fig. 6.

Family MITSUKURINIDÆ.

Genus *Mitsukurina* Jordan.*Mitsukurina* Jordan, Proc. Cal. Acad. Sci., 1898, p. 200. Perhaps not separable from the extinct genus *Scapanorhynchus*.Type *Mitsukurina owstoni* Jordan.36. *Mitsukurina owstoni* Jordan. (Fig. 7).*Mitsukurizame*; *Tenguzame*.*Mitsukurina owstoni* Jordan, Proc. Cal. Ac. Sci., 1898, p. 200. Misaki, Sagami.

Distrib.—Sagami Sea.

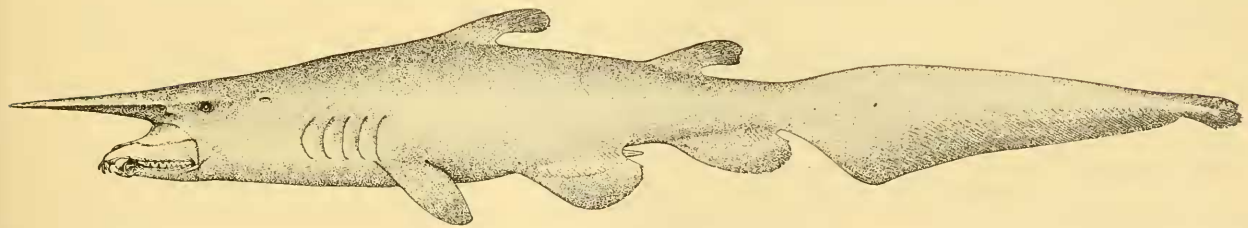


Fig. 7.

37. *Mitsukurina jordani* (Hussakof).*Scapanorhynchus jordani* Hussakof, Bull. Am. Mus. Nat. Hist., XXVI, Art. XIX, 1909, p. 257, fig. 1, B. Tōkyō Market.

Distrib.—Sagami Sea; Mororan (Snyder).

Family LAMNIDÆ.**Genus Isuropsis Gill.**

Isuropsis Gill, Ann. Lyc. Nat. Hist. N. Y., VIII, 1861, p. 153.

Type *Oxyrhina glauca* Müller & Henle.

38. Isuropsis glauca (Müller & Henle).

Aozame; Morozame.

Oxyrhina glauca Müller & Henle, Plagiostomen, 1838, p. 69, pl. XXIX.

Nagasaki. (Erroneously stated to be from Java).

Distrib.—Coasts of Japan and southward, rather common about Nagasaki.

Genus Lamna Cuvier.

Lamna Cuvier, Règne Animal, 1st ed., 1817, p. 129.

Type *Squalus cornubicus* Gmelin.

39. Lamna cornubica (Gmelin).

Sakezame.

Squalus cornubicus Gmelin, Syst. Nat., I, 1788, p. 1497. Shores of Cornwall.

(After *Beaumaris* of Pennant).

Distrib.—Common in Europe and southern Alaska; Japan.

Genus Carcharodon Smith.

Carcharodon Andrew Smith, Proc. Geol. Soc. London, V, 1837, p. 86.

Type *Carcharodon capensis* Smith = *Squalus carcharias* Linnæus.

40. Carcharodon carcharias (Linnæus).

Ōshirozame; Hitokuizame.

Squalus carcharias Linnæus, Syst. Nat., 10th ed., 1758, p. 235. Europe. (After

Artedi. Not of most later authors).

Distrib.—All temperate and tropical seas; occasionally taken in both the Atlantic and the Pacific.

Family CETORHINIDÆ.**Genus Cetorhinus Blainville.**

Cetorhinus Blainville, Journ. Phys., 1816, p. 264.

Type *Squalus gunnerianus* Blainville = *Squalus maximus* Gunner.

41. *Cetorhinus maximus* (Gunner). (Fig. 8).

Ubazame; Tenguzame; Bakazame; Zōzame.

Squalus maximus Gunner, Trondhjem Selskabskr., III, 1765, p. 33. Coast of Norway.

Distrib.—Arctic seas, occasionally off the coast of Japan.

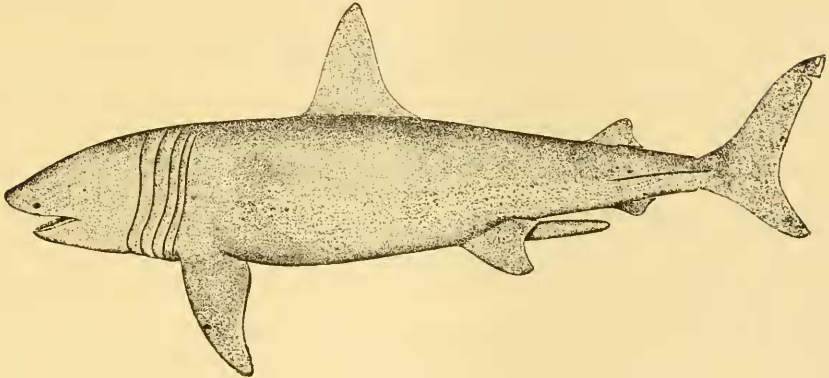


Fig. 8.

Family RHINEODONTIDÆ.

Genus Rhineodon Smith.

Rhineodon Andrew Smith, Illustr. S. Afr. Fishes, 1837, p. 26.

Type *Rhincodon typicus* Smith.

42. *Rhineodon typicus* Smith.

Yasurizame.

Rhincodon typicus Smith, Illustr. S. Afr. Fish., 1837, pl. 26. Cape of Good Hope.

Rhinodon pentalineatus Kishinouye, Zool. Anzeiger, Nov. 25, 1891, p. 694. Cape Inubō, Japan.

Distrib.—Cape of Good Hope; Seychelles; Japan.

Family PSEUDOTRIAKIDÆ.

Genus Pseudotriakis Capello.

Pseudotriakis Capello, Journ. Sci., Math., Phys., Nat., Lisbon, 1868, p. 321.

Type *Pseudotriakis microdon* Capello.

43. *Pseudotriakis acrales* Jordan & Snyder.

Oshizame.

Pseudotriakis acrales Jordan & Snyder, Smiths. Misc. Coll., 45, April 11, 1904, p. 232, pl. LXII. Suruga Bay, Japan.

Distrib.—Southern Japan.

Order TECTOSPONDYLI.

Family SQUALIDÆ.

Genus *Squalus* Linnæus.

Squalus Linnæus, Syst. Nat., 10th ed., 1758, p. 233.

Type *Squalus acanthias* Linnæus.

44. *Squalus mitsukurii* Jordan & Snyder. (Fig. 9).

Aizame (Tōkyō Market); Tsunozane; Tsunoge.

Squalus mitsukurii Jordan & Snyder, Annot. Zool. Japon., III, April 3, 1901, p. 129. Misaki, Sagami (Name only).

Squalus mitsukurii Jordan & Snyder in Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 629, fig. 3. Misaki, Sagami.

Distrib.—Coasts of Japan, generally common from Hokkaidō as far southward as Formosa.



Fig. 9.

45. *Squalus japonicus* Ishikawa.

Togari-tsunozame.

Squalus japonicus Ishikawa, Proc. Acad. Nat. Sci. Phila., LX, 1908, p. 71.

Tōkyō Market; Kagoshima.

Distrib.—Southern Japan.

Genus *Lepidorhinus* Bonaparte.

Lepidorhinus Bonaparte, Selach. Tab. Analyt., 1836, p. 9.

Type *Squalus squamosus* Gmelin.

46. *Lepidorhinus foliaceus* (Günther).

Momijizame.

Centrophorus foliaceus Günther, Deep Sea Fishes, Challenger, 1887, p. 5, pl. II, fig. A. Off Enoshima.

Distrib.—Sagami Sea.

Genus *Deania* Jordan & Snyder.*Deania* Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 80.Type *Deania eglantina* Jordan & Snyder.47. *Deania eglantina* Jordan & Snyder. (Fig. 10).

Hera-tsunozame.

Deania eglantina Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 80, fig. 2. Tōtōmi Bay.

Distrib.—Tōtōmi Bay.

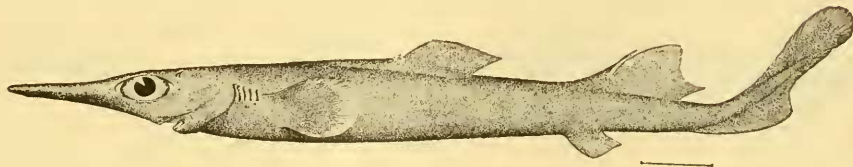


Fig. 10.

Genus *Centroscymnus* Bocage & Capello.*Centroscymnus* Bocage & Capello, Proc. Zool. Soc. London, 1864, p. 263.Type *Centroscymnus carolepis* Bocage & Capello.48. *Centroscymnus owstonii* Garman.

Yumezame.

Centroscymnus owstonii Garman, Bull. Mus. Comp. Zool. Harvard College, XLVI, No. 11, Jan. 1906, p. 207. Yenoura, Suruga Gulf; Sagami Bay.

Distrib.—Southern Japan.

Genus *Zameus* Jordan & Fowler.*Zameus* Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 632.(Perhaps inseparable from *Centroscymnus*).Type *Centrophorus squamulosus* Günther.

49. *Zameus squamulosus* (Günther).

Birōdozame (Tōkyō Market) ; **Karasuzame** (Tōkyō Market).

Centrophorus squamulosus Günther, Deep Sea Fish., Challenger, 1887, p. 5,
pl. II, fig. B. Enoshima.

Distrib.—Sagami Sea.

Genus *Etmopterus* Rafinesque.

Etmopterus Rafinesque, Caratteri di Alcuni Generi, 1810, p. 14.

Spiuax Cuvier, Règne Animal, I, 1817, p. 129. (*Squalus spinax* Linnæus).

Type *Etmopterus aculeatus* Rafinesque = *Squalus spinax* Linnæus.

50. *Etmopterus lucifer* Jordan & Snyder. (Fig. 11).

Fujikujira (Misaki, Sagami ; Odawara, Sagami) ; **Tsubakuro** (Tōkyō Market) ; **Bōzuzame**.

Etmopterus lucifer Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p.
79. Misaki, Sagami.

Distrib.—Sagami Sea ; Nagasaki ; Mororan (Snyder ms.).

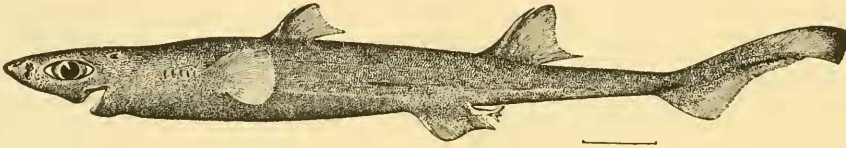


Fig. 11.

51. *Etmopterus frontimaculatus* Pietschmann.

Karasuzame (Misaki, Sagami ; Odawara, Sagami).

Etmopterus frontimaculatus Pietschmann, Anz. k. Akad. Wiss. Wien, XX,
Oct. 24, 1907, p. 395. Japan.

Distrib.—Sagami Sea.

Genus *Acanthidium* Lowe.

Acanthidium Lowe, Proc. Zool. Soc. London, 1839, p. 91. (Perhaps not
separable from *Etmopterus*).

Type *Acanthidium pusillum* Lowe.

52. *Acanthidium aciculatum* Garman.

Togezame.

Acanthidium aciculatum Garman, Bull. Mus. Comp. Zool. Harvard College,
XLVI, No. 11, Jan. 1906, p. 207. Sagami Bay.

Distrib.—Sagami Sea.

53. *Acanthidium rostratum* Garman.

Manzaizame.

Acanthidium rostratum Garman, Bull. Mus. Comp. Zool. Harvard College, XLVI, No. 11, Jan. 1906, p. 206. Suruga Gulf.

Distrib.—Southern Japan.

54. *Acanthidium hystricosum* Garman.

Sagamizame.

Acanthidium hystricosum Garman, Bull. Mus. Comp. Zool. Harvard College, XLVI, No. 11, Jan. 1906, p. 206. Sagami Bay.

Distrib.—Sagami Sea.

Genus *Centrophorus* Müller & Henle.

Centrophorus Müller & Henle, Plagiostomen, 1841, p. 88.

Type *Squalus granulosus* Bloch & Schneider.

55. *Centrophorus acus* Garman.

Tarōzame.

Centrophorus acus Garman, Bull. Mus. Comp. Zool. Harvard Col., XLVI, No. 11, Jan. 1906, p. 204. Japan.

Distrib.—Sagami Sea.

56. *Centrophorus steindachneri* Pietschmann.

Okinazame.

Centrophorus steindachneri Pietschmann, Anz. K. Akad. Wiss. Wien, XX, Oct. 24, 1907, p. 394. Japan.

Distrib.—Sagami Sea.

57. *Centrophorus tessellatus* Garman.

Genrokuzame.

Centrophorus tessellatus Garman, Bull. Mus. Comp. Zool. Harvard College, XLVI, No. 11, Jan. 1906, p. 205. Sagami Sea. (Perhaps identical with *Squalus granulosus* Bloch & Schneider of the Mediterranean).

Distrib.—Sagami Sea.

Genus *Centroscyllium* Müller & Henle.

Centroscyllium Müller & Henle, Plagiostomen, 1838, p. 191.

Type *Spinax fabricii* Reinhardt.

58. *Centroscyllium ritteri* Jordan & Fowler. (Fig. 12).

Kasumizame.

Centroscyllium ritteri Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 635, fig. 6. Misaki, Sagami.

Distrib.—Sagami Sea.

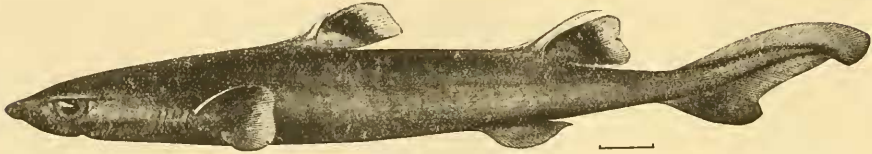


Fig. 12.

Family DALATIIDÆ.

Genus *Dalatias* Rafinesque.*Dalatias* Rafinesque, Caratteri di Alcuni Generi, 1810, p. 13.Type *Dalatias sparophagus* Rafinesque = *Dalatias licha* (Bonnaterre).59. *Dalatias licha* (Bonnaterre).

Yoroizame.

Squalus licha Bonnaterre, Encycl. Ichth., 1788, p. 12. (After *La Liche* ou *Gatto*, Broussonet, Mem. Ac. Sci., 1788, p. 677. "Le Cap," in southern France).*Squalus americanus* Gmelin, Syst. Nat., 1789, p. 1503. (After Broussonet. "Cap Breton" in France. Being assumed to be in Nova Scotia).

Distrib.—Mediterranean Sea and neighboring waters ; Japan.

Family SOMNIOSIDÆ.

Genus *Somniosus* Le Sueur.*Somniosus* Le Sueur, Jour. Ac. Nat. Sci. Phila., 1818, I, p. 222.Type *Somniosus brevipinna* Le Sueur = *Squalus microcephalus* Bloch & Schneider.60. *Somniosus microcephalus* Bloch & Schneider.

Ondenzame (Odawara, Sagami).

Squalus microcephalus Bloch & Schneider, Syst. Ichth., 1801, p. 135. Northern seas.

Distrib.—Arctic seas south to Cape Cod, Oregon, France and Japan.

Family PRISTIOPHORIDÆ.**Genus Pristiophorus** Müller & Henle.

Pristiophorus Müller & Henle, Plagiostomen, 1838, p. 97.

Type *Pritis cirratus* Latham.

61. Pristiophorus japonicus Günther.

Nokogirizame (Tōkyō; Misaki, Sagami); **Hokobuka**; **Daigirizame**; **Iranokuri** (Kagoshima).

Pristiophorus japonicus Günther, Cat., fish., VIII, 1870, p. 43. Japan.

Distrib.—Coasts of Japan and China.

Family ECHINORHINIDÆ.**Genus Echinorhinus** Blainville.

Echinorhinus Blainville, Bull. Sci. Philom., 1816, p. 121.

Type *Squalus spinosus* Gmelin.

62. Echinorhinus spinosus (Gmelin).

Kikuzame.

Squalus spinosus Gmelin, Syst. Nat., 1788, p. 1500. "The ocean."

Distrib.—Atlantic coasts of Europe and Africa; Cape Cod; Japan.

Family ISISTIIDÆ.**Genus Isistius** Gill.

Isistius Gill, Proc. Ac. Nat. Sci. Phila., 1864, p. 264.

Type *Scymnus brasiliensis* Quoy & Gaimard.

63. Isistius brasiliensis (Quoy & Gaimard).

Darumazame (Tōkyō Market).

Scymnus brasiliensis Quoy & Gaimard, Voy. Uran. Zool., p. 198. Brazil.

Distrib.—South Pacific; off Fiji; Brazil; Guinea; Japan.

Family SQUATINIDÆ.**Genus Squatina** Duméril.

Squatina Duméril, Zool. Analyt., 1806, p. 102.

Type *Squatina angelus* Duméril = *Squalus squatina* Linnæus.

64. *Squatina japonica* Bleeker.

Kasuzame ; Tengaizame ; Koroizame ; Minozame (Kagoshima).

Squatina japonica Bleeker, Act. Soc. Sci. Indo, Neerl., 1857, III, Japan, IV,
p. 40. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

65. *Squatina nebulosa* Regan.

Kurokasuzame.

Squatina nebulosa Regan, Ann. Mag. Nat. Hist., Dec. 1906, p. 439. Japan.

Distrib.—Japan.

Order BATOIDEI.**Family RHINOBATIDÆ.****Genus *Rhinobatus* Bloch & Schneider.***Rhinobatus* Bloch & Schneider, Syst. Ichth., 1801, p. 353.Type *Rhinobatus rhinobatus* Bloch & Schneider.**66. *Rhinobatus schlegelii* Müller & Henle.**

Sakatazame (Ōsaka).

Rhinobatus (Rhinobatus) schlegelii Müller & Henle, Plagiostomen, 1838, p.
123, pl. XLII. Nagasaki.

Distrib.—Tōkyō to Nsgasaki.

67. *Rhinobatus polyophthalmus* Bleeker.

Komon-sakatazame.

Rhinobatus polyophthalmus Bleeker, Nieuwe Nalezing, Japan, 1854, p. 129.
Nagasaki.

Distrib.—Tōkyō to Nagasaki.

Genus *Rhynchobatus* Müller & Henle.*Rhynchobatus* Müller & Henle, Plagiostomen, 1838, p. 111.Type *Rhinobatus levis* Bloch & Schneider.**68. *Rhynchobatus djiddensis* (Forskål).**Tongari ; Kotainozu ; Sakatazame ; Kasuka ; Sukinosaki ; Sakafute ; Sukino-
sazaki.*Raja djiddensis* Forskal, Descr. Anim., II, 1775, p. 15, figs. 1. 2. Djidda,
Red Sea.

Distrib.—East Indies, north to Japan.

Genus *Rhina* Bloch & Schneider.

Rhina Bloch & Schneider, Syst. Ichth., 1801, p. 352.

Type *Rhina ancylostomus* Bloch & Schneider.

69. *Rhina ancylostoma* Bloch & Schneider.

Shinonome-sakata.

Rhina ancylostomus Bloch & Schneider, Syst. Ichth., 1801, p. 352, pl.

LXXII. Coromandel.

Distrib.—East Indies, north to Japan.

Family NARCobatID.E.**Genus *Narke*** Kaup.

Narke Kaup, Isis, 1826.

Astrape Müller & Henle, Plagiostomen, 1838, p. 130. (*Raja capensis* Gmelin).

Type *Raja capensis* Gmelin.

70. *Narke japonica* (Temminck & Schlegel).

Shibire-ei.

Astrape japonica Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p.

307, pl. CXL. Nagasaki.

Distrib.—Southern Japan, not rare.

Genus *Tetronarce* Gill.

Tetronarce Gill, Ann. Lyc. Nat. Hist., N. Y., 1861, VIII, p. 387.

Type *Torpedo occidentalis* Storer.

71. *Tetronarce tokionis* Tanaka.

Yamato-shibireei.

Tetronarce tokionis Tanaka, Journ. Coll. Sci. Tokyo, March 15, 1908, p. 2,

fig. Tōkyō Market.

Distrib.—Sagami Sea.

Family RAJID.E.**Genus *Discobatus*** Garman.

Platyrrhina Müller & Henle, Plagiostomen, 1838, p. 125. (*Rhina sinensis* Bloch & Schneider. The generic name *Platyrrhina* preoccupied).

Discobatus Garman, Proc. U. S. Nat. Mus., 1880, p. 522.

Type *Rhina sinensis* Bloch & Schneider.

72. *Discobatus sinensis* (Bloch & Schneider).**Uchiwazame.**

Raie chinoise Lacépède, Hist. Nat. Poiss., I, pp. 34, 157, pl. II, fig. 2. From a Chinese painting.

Rhina sinensis Bloch & Schneider, Syst. Ichth., 1801, p. 352. After Lacépède.

Distrib.—Coasts of Japan and China.

Genus *Raja* Linnæus.

Raja Linnæus, Syst. Nat., 10th ed., 1758, p. 231.

Type *Raja batis* Linnæus.

73. *Raja meerdervoortii* Bleeker. (Fig. 13).**Komon-kasube ; Komon-gangiei.**

Raja meerdervoortii Bleeker, Act. Sci. Ind. Neerl., VIII, 1860, p. 66. Japan.

Distrib.—Coasts of Japan.

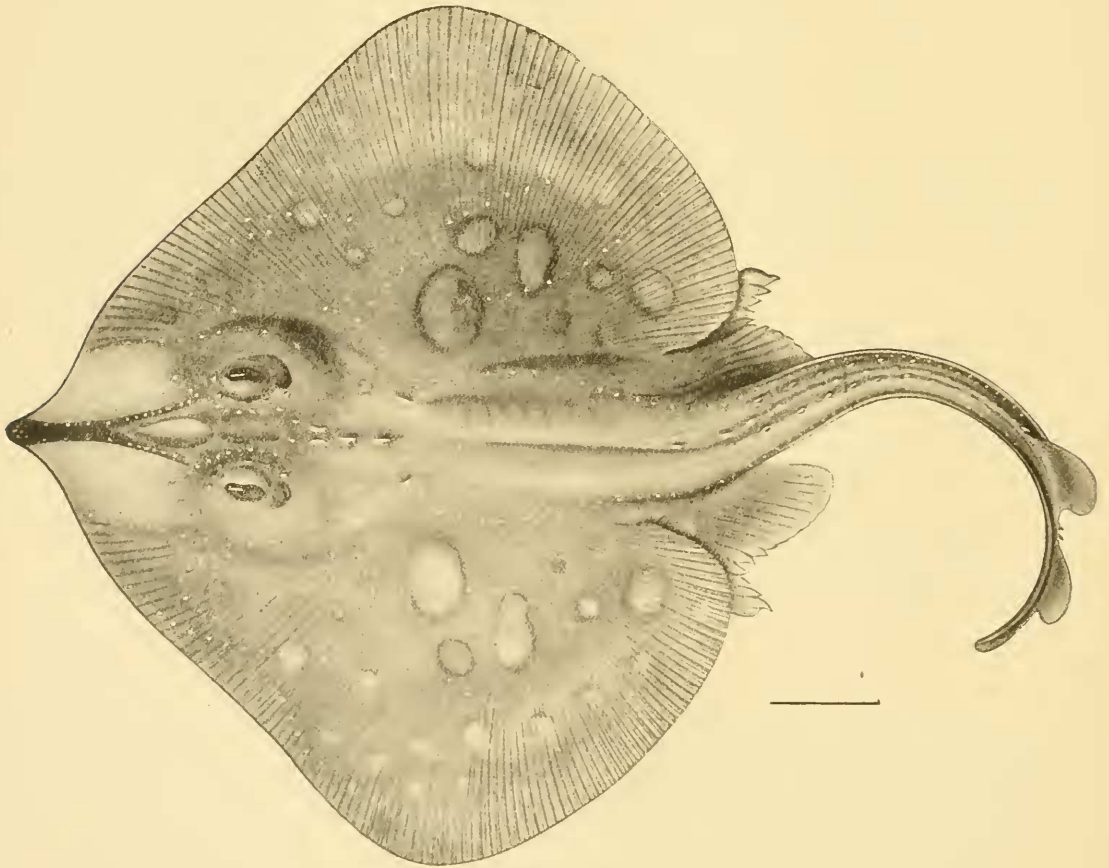


Fig. 13.

74. *Raja kenojei* Müller & Henle.

Gangiei (Tōkyō); Kasube (Tōkyō); Kenoei (Nagasaki); Sebita; Igaei; Renteei.

Raja kenojei Müller & Henle, Plagiosotmen, 1838, p. 149, pl. XLVIII.
Nagasaki.

Raja japonica Nyström, Kongl. Svensk. Vet. Ak., 1887, p. 52. Nagasaki.
Distrib.—Coasts of Japan.

75. *Raja isotrachys* Günther.

Sokokasube.

Raja isotrachys Günther, Deep Sea Fish., Challenger, 1887, p. 7, pl. III.
South of Japan.

Distrib.—South of Japan.

76. *Raja fusca* Garman.

Kurokasube.

Raja fusca Garman, Proc. U. S. Nat. Mus., 1885, p. 42. Japan.
Distrib.—Japan.

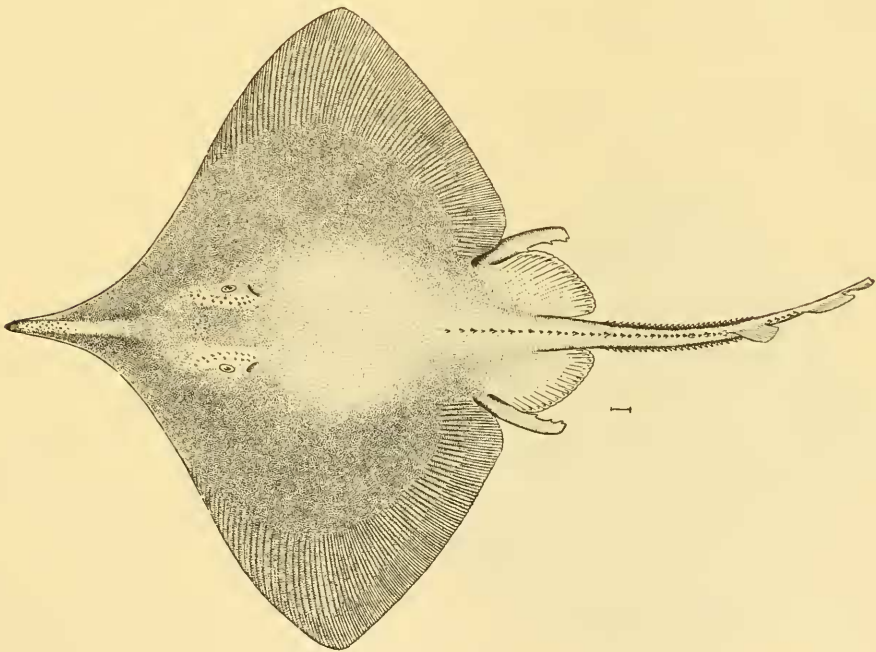


Fig. 14.

77. *Raja tengu* Jordan & Fowler. (Fig. 14).

Tengu-kasube; Tengu-ei.

Raja tengu Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 654, fig. 8. Matsushima Bay.

Distrib.—Coasts of Japan, especially northward; Aomori; Hakodate; Matsushima.

78. *Raja binocularata* Girard.

Megane'kasube.

Raja binocularata Girard, Proc. Ac. Nat. Sci. Phila., 1854, p. 195. San Francisco.

Distrib.—Pacific coast from Monterey to Sitka; Saghalien.

Family DASYATIDÆ.

Genus Dasyatis Rafinesque.

Dasyatis Rafinesque, Caratteri di Alcuni Nuovi Generi, 1810, p. 16.

Type *Dasyatis ujus* Rafinesque = *Raja pastinaca* Linnæus.

79. *Dasyatis akajei* (Müller & Henle). (Fig. 15).

Akaei.

Trygon akajei Müller & Henle, Plagiostomen, 1838, p. 165, pl. LIII. Nagasaki.

Distrib.—Coasts of Japan, very common.

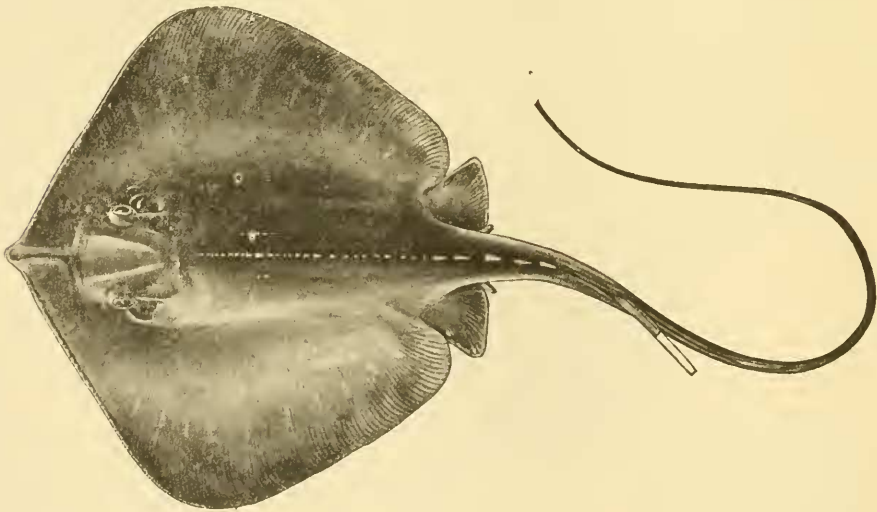


Fig. 15.

80. *Dasyatis zugei* (Müller & Henle).

Zugu-ei.

Trygon zugei Müller & Henle, Plagiostomen, 1838, p. 165, pl. LIII. Nagasaki.
Distrib.—Coasts of Japan.

81. *Dasyatis kuhlii* (Müller & Henle).

Yakko-ei.

Trygon kuhlii Müller & Henle, Plagiostomen, 1838, p. 164, pl. CI. Vanicoro ;
New Guinea. Drawing from a specimen from Nagasaki. (Identification
doubtful).

Distrib.—Coasts of Japan and southward.

Genus *Himantura* Müller & Henle.

Himantura Müller & Henle, Wiegmann's Archiv, 1837, p. 400.
Type *Raja uarnak* Forskal.

82. *Himantura gerrardi* Gray.

Otome-ei.

Trygon gerrardi Gray, Chondropt., 1851, p. 116. India.
Distrib.—East-Indian Archipelago ; Japan.

Genus *Pteroplatea* Müller & Henle.

Pteroplatea Müller & Henle, Plagiostomen, 1838, p. 168.
Type *Raja altavella* Gmelin.

83. *Pteroplatea japonica* Temminck & Schlegel.

Tsubakuroei ; Yokosaei.

Pteroplatea japonica Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p.
309, pl. CXLI. Nagasaki.
Distrib.—Japan ; Canton.

Genus *Urolophus* Müller & Henle.

Leiobatus Blainville, Jour. Phys., LXXXIII, 1816, p. 262. (*Raja cruciata*
Lacépède. Not *Leiobatus* Rafinesque, 1810).

Urolophus Müller & Henle, Plagiostomen, 1838, p. 173.

Type *Urolophus aurantiacus* Müller & Henle = *Raja cruciata* Lacépède.

84. *Urolophus fuscus* Garman.

Kuro-ei.

Urolophus fuscus Garman, Proc. U. S. Nat. Mus., 1885, p. 41. East coast of Japan.

Urolophus tullbergi Nyström, Kongl. Svensk. Vet. Akad., 1887, p. 53. Nagasaki. Distrib.—Southern Japan; Tōkyō market (Snyder ms.).

Family **ÆTOBATIDÆ**.Genus *Ætobatus* Blainville.

Ætobatus Blainville, Journal de Physique, LXXXIII, 1816, p. 261.

Myliobatis Duméril, in Cuvier, Règne Anim., 1st ed., II, 1817, p. 137 (*Raja aquila* Linnæus).

Type *Raja aquila* Linnæus.

85. *Ætobatis tobijei* (Bleeker).

Tobieï.

Myliobatis tobijei Bleeker, Verh. Bat. Gen., XXVI, 1854, Nieuwe Nalez., Japan, p. 130. Nagasaki.

Myliobatis cornuta Günther, Cat. Fish., VIII, 1870, p. 490. Japan.

Distrib.—Hakodate to Nagasaki.

Family **MOBULIDÆ**.Genus *Mobula* Rafinesque.

Mobula Rafinesque, Indice d' Ittiol. Sicil., 1810, p. 61.

Type *Mobula auriculata* Rafinesque = *Squalus edentulus* Brünnich = *Raja mobula* Lacépède.

86. *Mobula japonica* (Müller & Henle). (Fig. 16).

Itomakiei.

Cephaloptera japonica Müller & Henle, Plagiostomen, 1836, p. 185. Nagasaki.

Distrib.—Coasts of Japan.

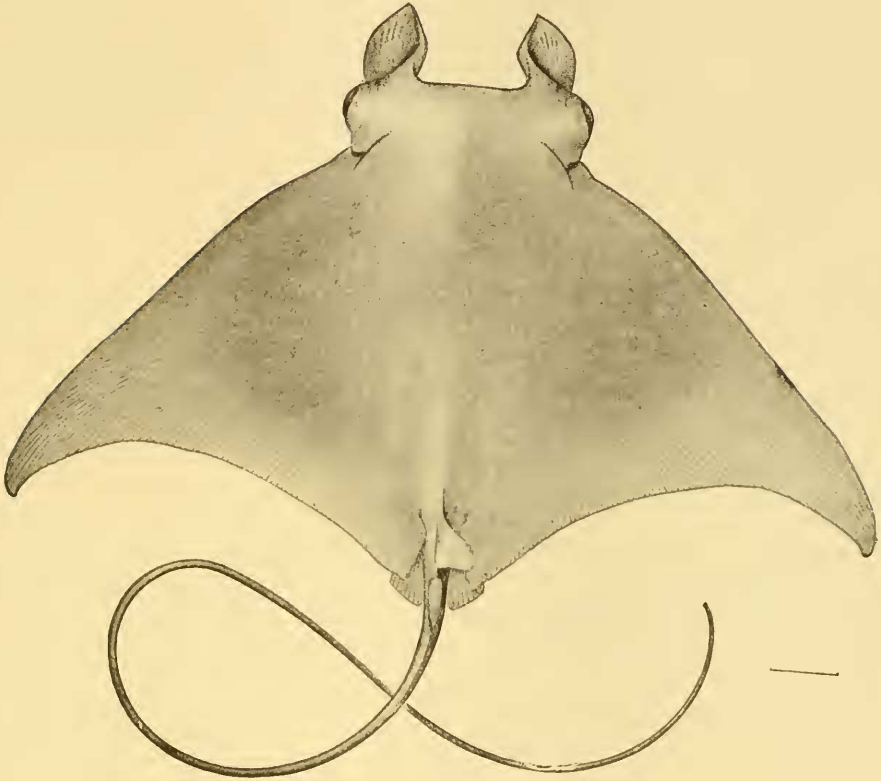


Fig. 16.

Subclass HOLOCEPHALI.

Order CHIMÆROIDEI.

Family CHIMÆRIDÆ.

Genus *Chimæra* Linnæus.

Chimæra Linnæus, Syst. Nat., 10th ed., 1758, p. 236.

Type *Chimæra monstrosa* Linnæus.

87. *Chimæra phantasma* Jordan & Snyder.

Ginzame.

Chimæra phantasma Jordan & Snyder, Proc. U. S. Nat. Mus., 1900, p. 338.

Tōkyō.

Distrib.—Tōkyō to Kagoshima.

88. *Chimæra mitsukurii* Dean.

Mitsukuri-ginzame.

Chimæra mitsukurii Dean, Jour. Coll. Sci. Imp. Univ. Tokyo, XIX, Art. 3,
Feb. 15, 1904, pl. I, figs. 1, 2. Misaki, Sagami.
Distrib.—Sagami Bay.

89. *Chimæra purpurascens* Gilbert.

Murasaki-ginzame.

Chimæra purpurascens Gilbert, Bull. U.S. Fish. Comm., XXIII, pt. II, Aug.
5, 1905, p. 582, fig. 231. Vicinity of Kauai, Hawaii.
Distrib.—Hawaii to Sagami Sea.

90. *Chimæra ogilbyi* Waite.

Nagayo-ginzame.

Chimæra ogilbyi Waite, "Thetis" Prelim. Rept., 1893, p. 56. Outside Bate
Bay, New South Wales.
Distrib.—New South Wales to Japan.

91. *Chimæra owstoni* Tanaka.

Owston-ginzame.

Chimæra owstoni Tanaka, Jour. Coll. Sci. Imp. Univ. Tokyo, XX, Art. 11,
Dec. 18, 1905, p. 10, pl. I, figs. 2, 3. Tōkyō Market.
Distrib.—Sagami Sea.

92. *Chimæra jordani* Tanaka.

Jordan-ginzame.

Chimæra jordani Tanaka, Jour. Coll. Sci. Imp. Univ. Tokyo, XX, Art. 11,
Dec. 18, 1905, p. 2, pl. I, fig. 1. Off Idzu, Sagami Sea.
Distrib.—Sagami Sea.

93. *Chimæra barbouri* Garman.

Kokonohoshi-ginzame.

Chimæra barbouri Garman, Bull. Mus. Comp. Zool. Harvard Col., LI, No. 9,
Feb. 1908, p. 255. Aomori
Chimæra spilota Tanaka, Jour. Coll. Sci. Imp. Univ. Tokyo, XXIII, Art. 7,
March 15, 1908, p. 15. Off Miyako, Prov. Rikuchū.
Distrib.—Tōkyō to Aomori.

Family RHINOCHIMÆRIDÆ.**Genus Rhinochimæra** Garman.

Rhinochimæra Garman, Proc. Eng. Zool. Club, 1901, II, p. 75.

Type *Harriotta pacifica* Mitsukuri.

94. Rhinochimæra pacifica (Mitsukuri).

Tengu-ginzame.

Harriotta pacifica Mitsukuri, Zool. Mag., June, 1895, pl. XVI. Kurihama, near Misaki, Sagami.

Distrib.—Sagami Sea.

Genus Anteliochimæra Tanaka.

Anteliochimæra Tanaka, Jour. Coll. Sci. Tokyo, XXVII, Art. 8, Oct. 10, 1909, p. 7.

Type *Anteliochimæra chætirhamphus* Tanaka.

95. Anteliochimæra chætirhamphus Tanaka.

Adsuma-ginzame.

Anteliochimæra chætirhamphus Tanaka, Jour. Coll. Sci. Tokyo, XXVII, Art. 8, Oct. 10, 1909, p. 7, pl. I. Sagami Sea.

Distrib.—Sagami Sea.

Subclass TELEOSTOMI.

Series GANOIDEI.

Order CHONDROSTEI.

Family ACIPENSERIDÆ.**Genus Acipenser** Linnæus.

Acipenser Linnæus, Syst. Nat., 10th ed., 1758, p. 237.

Type *Acipenser sturio* Linnæus.

96. Acipenser kikuchii Jordan & Snyder.

Kikuchi-chōzame.

Acipenser kikuchii Jordan & Snyder, Jour. Coll. Sci. Tokyo, XV, May 20, 1901, p. 302, pl. XV, figs. 1, 2. Misaki, Sagami.

Distrib.—Sagami Sea.

97. *Acipenser mikadoi* Hilgendorf.

Chōzame.

Acipenser mikadoi Hilgendorf, Sitz. Naturf. Freunde Berlin, 1892, p. 98.
Tōkyō Market.

Distrib.—Ishigari River ; Tōkyō Market.

98. *Acipenser multiscutatus* Tanaka.

Sennin-chōzame.

Acipenser multiscutatus Tanaka, Jour. Coll. Sci. Tokyo, XXIII, Art. 7, March
15, 1908. Off Ukedohama, Prov. Iwaki.

Distrib.—Off Iwaki.

Series TELEOSTEI.

Order ISOSPONDYLI.

Family PTEROTHRISIDÆ.

Genus *Pterothrissus* Hilgendorf.*Pterothrissus* Hilgendorf, Act. Soc. Leopoldina, XIII, Sept. 3, 1877, p. 127.*Bathyrhrissa* Günther, Ann. Mag. Nat. Hist., Nov. 1, 1877, p. 443.(*Bathyrhrissa dorsalis* Günther).Type *Pterothrissus gissu* Hilgendorf.99. *Pterothrissus gissu* Hilgendorf.

Dabogisu (Misaki, Sagami); Okigisu (Odawara, Sagami).

Pterothrissus gissu Hilgendorf, Leopoldina, XIII, 1877, p. 127. Off Tōkyō.*Bathyrhrissa dorsalis* Günther, Ann. Mag. Nat. Hist., Nov. 1, 1877, p. 443.—

Günther, Shore Fish, Challenger, 1880, p. 63. Enoshima.

Distrib.—Hakodate to Suruga Bay.

Family ALBULIDÆ.

Genus *Albula* Gronow.*Conorhynchus* Nozeman, Act. Select., III, 1757, p. 382. (Nonbinomial).*Albula* Gronow, Zoophyl., 1763, p. 102.Type *Esox vulpes* Linnæus.

100. *Albula vulpes* (Linnæus). (Fig. 17).

Soto-iwashi.

Esox vulpes Linnæus, Syst. Nat., 10th ed., 1758, p. 313. Bahamas. Based on the Bonefish, *Vulpes bahamensis*, of Catesby.

Distrib.—Shores of all tropical seas.

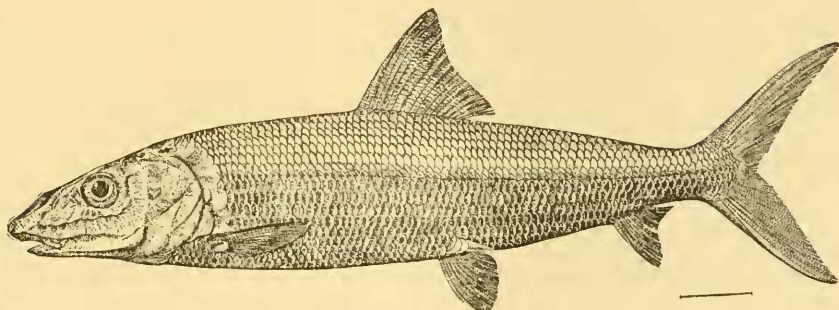


Fig. 17.

Family ELOPIDÆ.Genus *Elops* Linnæus.

Elops Linnæus, Syst. Nat., 12th ed., 1766, p. 518.

Type *Elops saurus* Linnæus.

101. *Elops hawaiiensis* Regan.

Kara-iwashi.

Elops hawaiiensis Regan, Ann. Mag. Nat. Hist., Ser. 8, Vol. III, 1909, p. 39.

Distrib.—Hawaii ; Phillippines ; Japan.

Family CHIROCENTRIDÆ.Genus *Chirocentrus* Cuvier.

Chirocentrus Cuvier, Règne Animal, 1817, p. 178.

Type *Clupca dorab* Forskål.

102. *Chirocentrus dorab* (Forskål).

Oki-iwashi.

Clupca dorab (Forskål), Descr. Anim., 1775, p. 72. Red Sea.

Distrib.—East Indies, occasionally northward to Japan.

Family DOROSOMATIDÆ.**Genus Konosirus** Jordan & Snyder.

Konosirus Jordan & Snyder, Proc. U.S. Nat. Mus., XXIII, 1900, p. 349.

Type *Chatoëssus punctatus* Temminck & Schlegel.

103. *Konosirus punctatus* (Temminck & Schlegel).

Konoshiro.

Chatoëssus punctatus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 240, pl. CIX, fig. 1. Nagasaki.

Distrib.—Shores of southern Japan ; Misaki, Sagami (Snyder ms.).

104. *Konosirus thrissa* (Osbeck).

Dorokui (Prov. Tosa).

Clupea thrissa Osbeck, Iter. Chinensis, 1757, p. 257.—Linnæus, Syst. Nat., 10th ed., I, 1758, p. 524. Indian Ocean.

Clupea nasus Bloch, Ichthyologia, XII, 1797, p. 117, pl. CCCCXXIX. Tranquebar.

Distrib.—East Indies north to southern Japan.

Family CLUPEIDÆ.**Genus Etrumeus** Bleeker.

Etrumeus Bleeker, Verh. Bat. Gen., XXV, Japan, 1853, p. 58.

Type *Clupea micropus* Temminck & Schlegel.

105. *Etrumens micropus* (Temminck & Schlegel).

Urume-iwashi (Tōkyō ; Misaki, Sagami) ; **Urume** (Prov. Tosa).

Clupea micropus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 236, pl. CVII, fig. 2. Nagasaki.

Distrib.—Hokkaidō to Formosa ; Hawaii ; California.

Genus Stolephorus Lacépède.

Stolephorus Lacépède, Hist. Nat. Poiss., V, 1803, p. 381.

Spratelloides Bleeker, Verh. Bat. Gen., XXIV, p. 29. (*Spratelloides argyrotænia* Bleeker = *Atherina japonica* Houttuyn).

Type *Atherina japonica* Houttuyn.

103. *Stolephorus japonicus* (Houttuyn).**Kibinago; Kibuna-iwashi.***Atherina japonica* Houttuyn, Verh. Holl. Maatsch. wet Haarl., XX, pt. 2, 1782, p. 340. Nagasaki.

Distrib.—Southern Japan.

Genus *Amblygaster* Bleeker.*Amblygaster* Bleeker, Journ. Ind. Arch., III, 1849, p. 72.*Sardinia* Poey, Memorias, II, 1860, p. 311. (*Sardinia pseudohispanica* Poey).Type *Amblygaster clupeioides* Bleeker.**107. *Amblygaster melanostictum* (Temminck & Schlegel).****Iwashi; Maiwashi; Ōiwashi; Hirago (Prov. Tosa); Hirameiwashi; Hirare; Yatsume; Maiwo; Morokuchi.***Clupea melanosticta* Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 237, pl. CVII, fig. 3. Nagasaki.

Distrib.—Shores of southern Japan, China and Kore; Otaru; Misaki Sagami. (Snyder ms.).

108. *Amblygaster immaculatum* (Kishinouye).**Hoshinashi-iwashi.***Clupea immaculata* Kishinouye, Journ. Imp. Fish. Bureau, XIV, No. 3, 1907, p. 96, pl. XIX, fig. 1, pl. XXI, fig. 4. Saga, Kiusiu; Amoy; Swatow, China.

Distrib.—Saga, Kiusiu; Amoy; Swatow.

Genus *Ilisha* Gray.*Platygaster* Swainson, Classif. Anim., II, 1839, p. 294 (*Clupea africana* Bloch. The generic name *Platygaster* preoccupied).*Ilisha* (Gray) Richardson, Ichthyol. China, in Proc. Brit. Assoc., 1846, p. 306.Type *Ilisha abnormis* (Gray) Richardson.**109. *Ilisha elongata* (Bennett).****Hira; Hira-konoshiro.***Alosa elongata* Bennett, Life of Raffles, 1830, p. 691. Sumatra.

Distrib.—Indian seas, north to Nagasaki and Wakanoura; Korea; China.

Genus *Clupea* (Artedi) Linnaeus.*Clupea* sp. Artedi, Genera, 1738.

Clupea Linnæus, Syst. Nat., 10th ed., 1758, p. 317.

Type *Clupea harengus* Linnæus.

110. *Clupea pallasii* Cuvier & Valenciennes. (Fig. 18).

Nishin; Kado; Bakaiwashi.

Clupea harengus var. Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 209.
Kamchatka.

Clupea pallasii Cuvier & Valenciennes, Hist. Nat. Poiss., XX, 1847, p. 253.
Kamchatka (based on Pallas's specimens).

Distrib.—North Pacific, south to northern Japan and to southern California.

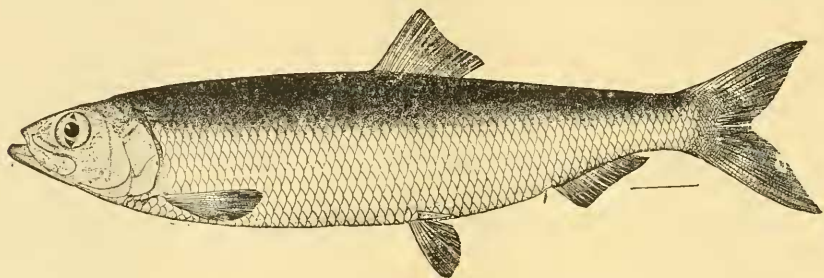


Fig. 18.

Genus *Sardinella* Cuvier & Valenciennes.

Sardinella Cuvier & Valenciennes, Hist. Nat. Poiss., XX, 1847, p. 261.

Harengula Cuvier & Valenciennes, Hist. Nat. Poiss., XX, 1847, p. 280,
(*Harengula latula* Cuvier & Valenciennes).

Type *Sardinella aurita* Cuvier & Valenciennes.

111. *Sardinella zunasi* (Bleeker).

Sappa (Misaki, Sagami; Tōkyō); Zunashi; Kinkawa (Prov. Owari); Harakata (Wakayama; Prov. Tōsa); Mamakari (Okayama; Hiroshima).

Harengula zunasi Bleeker, Verh. Bat. Gen., XXVI, 1854, p. 117. Nagasaki.

Distrib.—Southern Japan and Korea.

Family ENGRAULIDÆ.

Genus *Engraulis* Cuvier.

Engraulis Cuvier, Règne Animal, 1st. ed., 1817, p. 174.

Type *Clupea encrasicolus* Linnæus.

112. *Engraulis japonicus* Temminck & Schlegel.

Katakuchi (Tōkyō; Misaki, Sagami); **Seguro**; **Hishiko**; **Maru-iwashi**; **Ma-iwashi** (Prov. Tosa; Prov. Idzu); **Dojō** (Lake Hamana); **Tarekuchi**; **Etare**; **Koshinaga**.

Engraulis japonicus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 239, pl. CVIII, fig. 3. Nagasaki.

Distrib.—Southern Saghalien; Japan; Korea.

Genus *Coilia* Gray.

Mystus Lacépède, Hist. Nat. Poiss., V, 1803, p. 406; (*Clupea mystus* Linnæus). Not of Gronow, 1763.

Coilia Gray, Zool. Misc., 1831, p. 9.

Type *Engraulis (Coilia) hamiltonii* Gray.

113. *Coilia nasus* Temminck & Schlegel.

Etsu.

Coilia nasus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 243, pl. CIX, fig. 4. Nagasaki.

Distrib.—Coasts of China, Kiusiu and Korea.

Family ALEPOCEPHALIDÆ.**Genus *Aleposomus* Gill.**

Aleposomus Gill, American Naturalist, XVIII, 1884, p. 433.

Type *Aleposomus copei* Gill.

114. *Aleposomus watasei* Tanaka.

Sekitori-iwashi.

Aleposomus watasei Tanaka, Journ. Coll. Sci. Imp. Univ. Tokyo, XXVII, Art. 8, Oct. 10, 1909, p. 14. Sagami Sea.

Distrib.—Sagami Sea.

Genus *Xenodermichthys* Günther.

Xenodermichthys Günther, Ann. Mag. Nat. Hist., July, 1878, p. 23.

Type *Xenodermichthys nodulosus* Günther.

115. *Xenodermichthys nodulosus* Günther.

Tsubu-iwashi.

Xenodermichthys nodulosus Günther, Ann. Mag. Nat. Hist., July 1878, p. 23.

South of Yeddo, Japan.—Günther, Shore Fish., Challenger, 1880, p. 63. Off Japan.

Distrib.—Sagami Sea.

Genus Alepocephalus Risso.

Alepocephalus Risso, Mem. Ac. Nat. Sci. Turin, XXV, 1820, p. 270

Type *Alepocephalus rostratus* Risso.

116. Alepocephalus owstoni Tanaka.

Hage-iwashi.

Alepocephalus owstoni Tanaka, Jour. Coll. Sci. Tokyo, XXIII, Art. 7, March 15, 1908, p. 27, pl. I, fig. 6. Sagami Sea.

Distrib.—Sagami Sea.

Genus Bathytroctes Günther.

Bathytroctes Günther, Ann. Mag. Nat. Hist., 1878, p. 249.

Type *Bathytroctes microlepis* Günther.

117. Bathytroctes rostratus Günther.

Hana-me-iwashi.

Bathytroctes rostratus Günther, Ann. Mag. Nat. Hist., 1878, p. 250. Off Pernambuco.—Günther, Deep Sea Fish. Challenger, 1887, p. 227, pl. LIII, fig. B. Same specimen.

Distrib.—Off Pernambuco, Brazil; Indian Ocean; Sagami Sea.

Family HALOSAURIDÆ.**Genus Halosaurus** Johnson.

Halosaurus Johnson, Proc. Zool. Soc. Lond., 1863, p. 406.

Type *Halosaurus oweni* Johnson.

118. Halosaurus affinis Günther.

Tokagegisu.

Halosaurus affinis Günther, Ann. Mag. Nat. Hist., 1877, p. 444. South of Japan.—Günther, Deep Sea Fish., Challenger, 1887, p. 241, pl. LIX, fig. B. Same specimen.

Family SALMONIDÆ.**Genus Oncorhynchus** Suckley.

Oncorhynchus Suckley, Ann. Lyc. Nat. Hist. N.Y., 1861, p. 312.

Type *Salmo scouleri* Richardson = *Salmo gorbuscha* Walbaum.

119. *Onchorhynchus nerka* (Walbaum). (Fig. 19).

Beni-masu.

Salmo nerka Walbaum, Artedi Piscium, 1792, p. 71. After the *Nerka* of Pennant, the *Narka* of Krascheninnikow. Rivers and seas of Kamchatka. Distrib.—Lake Akan, Prov. Kushiro; Urup Island; Kamchatka; Alaska, and southward to Oregon.

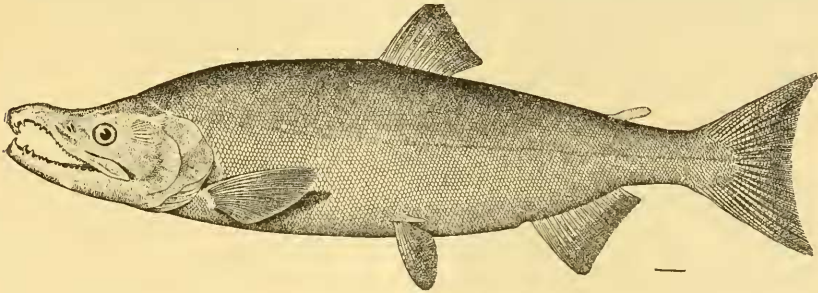


Fig. 19.

120. *Oncorhynchus keta* (Walbaum). (Fig. 20).

Shake; Sake.

Salmo keta vel *kayko* Walbaum, Artedi Piscum, 1792, p. 72. Rivers of Kamchatka. After the *Keta* or *Kayko* of Pennant & Krascheninnikow.

Oncorhynchus haberi Hilgendorf, Monatsber. Ges. Ost-Asien, XI, 1876, p. 25. Hokkaidō.

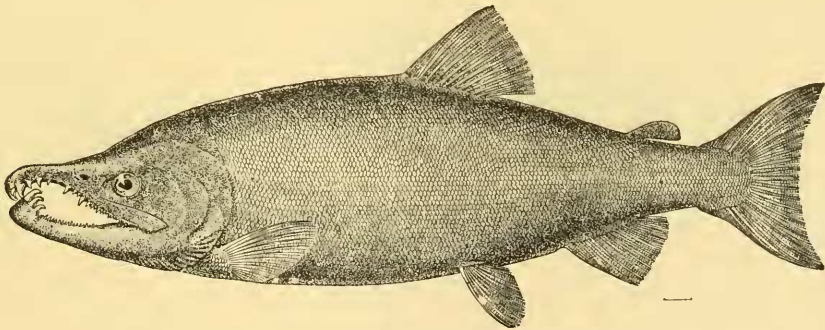


Fig. 20.

Oncorhynchus yessoensis Hilgendorf, Monatsber. Ges. Ost-Asien, XI, 1876, p. 25. Hokkaidō.

Distrib.—San Francisco to Kamchatka; Ishigari River, Hokkaidō; Hakodate; Aomori; Chiba.

121. *Oncorhynchus tshawytscha* (Walbaum).

Masunosuke (Hokkaidō).

Salmo tshawytscha Walbaum, Artedi Piscium, 1792, p. 71. Rivers of Kamchatka. After the Tschawitscha of Krasheninnikow, Descr. Kamchatka, 1768, p. 178, and the Tschawytscha of Pennant, 1792.

Distrib.—Alaska, Oregon, and California, southward to Ventura River, and to northern Hokkaidō and East Coast of Siberia ; Kamchatka.

122. *Oncorhynchus kisutch* (Walbaum).

Ginmasu ; Kokure (male ; Prov. Shinano) ; Masu (female ; Prov. Shinano).

Salmo kisutch Walbaum, Artedi Piscium, 1792, p. 70. Rivers and Lakes of Kamchatka. After the Kisutch of Pennant.

Distrib.—Otaru ; Ura River ; Osatsubo ; Prov. Shinano ; Aomori Market ; from San Francisco northward ; Alaskan fjords.

123. *Oncorhynchus gorbuscha* (Walbaum). (Fig. 21).

Karafuto-masu.

Salmo gorbuscha Walbaum, Artedi Piscium, 1792, p. 69. Kamchatka. After the Gorbuscha of Pennant and Krascheninnikow.

Distrib.—Pacific coast and rivers of North America and Asia from Oregon northward, and southward to Kamchatka ; Saghalien.

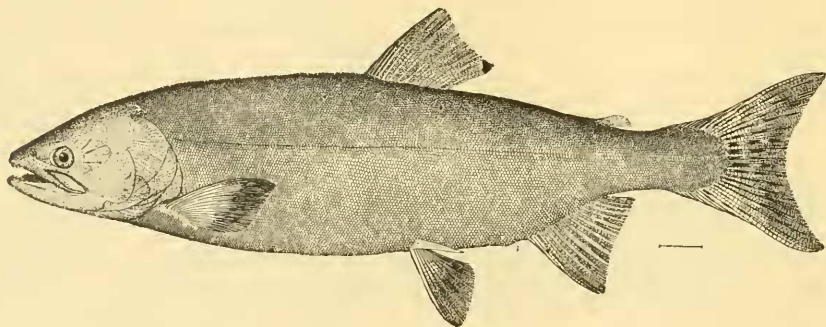


Fig. 21.

124. *Oncorhynchus masou* (Brevoort). (Fig. 22).

Yezomasu ; Masu ; Yamame ; Amenouwo ; Amego.

Salmo masou Brevoort, Exped. Japan, 1856, p. 275, pl. IX, fig. 2. Hakodate. (Description from a very bad drawing).

Salmo macrostoma Günther, Shore Fishes, Challenger, 1880, p. 71, pl. XXXI, fig. A. Yokohama.

Distrib.—Streams of Japan and coasts of north Japan, southward to Lake Biwa.

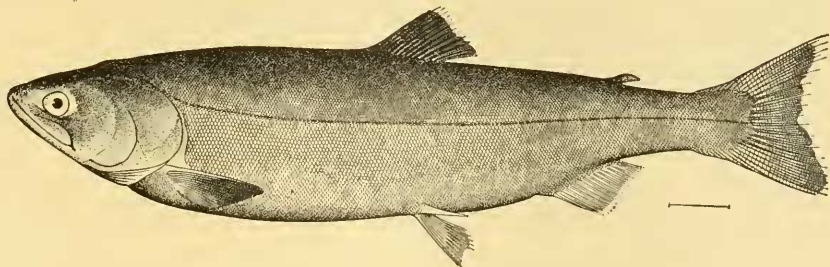


Fig. 22.

Genus *Hucho* Günther.

Hucho Günther, Cat. Fish., VI, 1866, p. 125.

Type *Salmo hucho* Linnaeus.

125. *Hucho perryi* (Brevoort). (Fig. 23).

Ito.

Salmo perryi Brevoort, Exped. Japan, 1856, p. 273, pl. IX, fig. 1. Hakodate.

Salmo blackistoni Hilgendorf, Monatsber. Gesellschaft Ostasien, 1876, p. 25.
Hokkaidō.

Distrib. — Hokkaidō ; southern Saghalien ; Aomori.

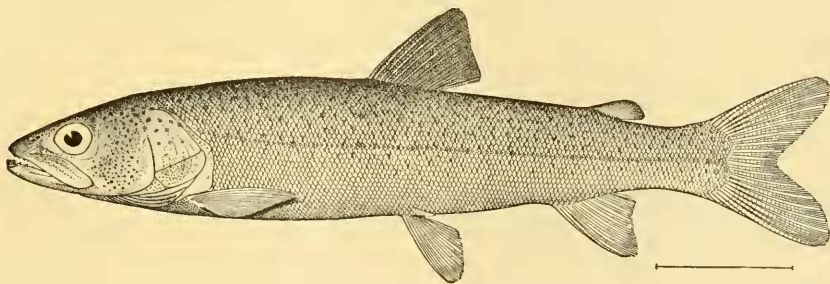


Fig. 23.

Genus *Salvelinus* (Nilsson) Richardson.

Salvelini Nilsson, Prodr. Ichth. Scand., 1832, p. 7. (*Salmo alpinus* Linnaeus).

Group name.

Salvelinus Richardson, Fauna Bor.-Amer., III, 1836, p. 169. After Nilsson.

Type *Salmo alpinus* Linnaeus.

126. *Salvelinus kundscha* (Pallas).

Iwana (Parr); Amemasu (Sea-run).

Salmo kundscha Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 250. Kamchatka.

Distrib.—Nemuro; Shiribeshi; Iturup Island; Prov. Shinano.

127. *Salvelinus malma* (Walbaum). (Fig. 24).

Yezo-iwana; Iwana.

Salmo malma Walbaum, Artedi Piscium, 1792, p. 66. Kamchatka. Based on *Malma* of Pennant.*Salmo lavigatus* Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 385. Kurile Islands.*Salmo curilus* Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 251. Kurile Islands.*Salmo pluvius* Hilgendorf, Monatsber. Ges. Ostasien, 1876, p. 25; Nikkō.

Distrib.—Streams of Alaska and Kamchatka; Aleutian region; Kuriles; Okhotsk Sea; Nikkō; northern California and northward.

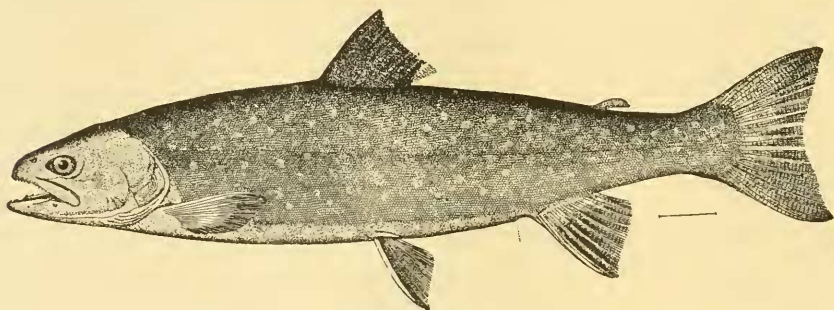


Fig. 24.

Genus *Plecoglossus* Temminck & Schlegel.*Plecoglossus* Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 229.Type *Plecoglossus altivelis* Temminck & Schlegel.128. *Plecoglossus altivelis* Temminck & Schlegel. (Fig. 25).

Ayu; Hiwuo (Lake Biwa); Koayu (Lake Biwa); Ai (Prov. Tosa).

Plecoglossus altivelis Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 229, pl. CV, fig. 1. No locality.

Distrib.—Japan; Hokkaidō; Formosa; Korea.

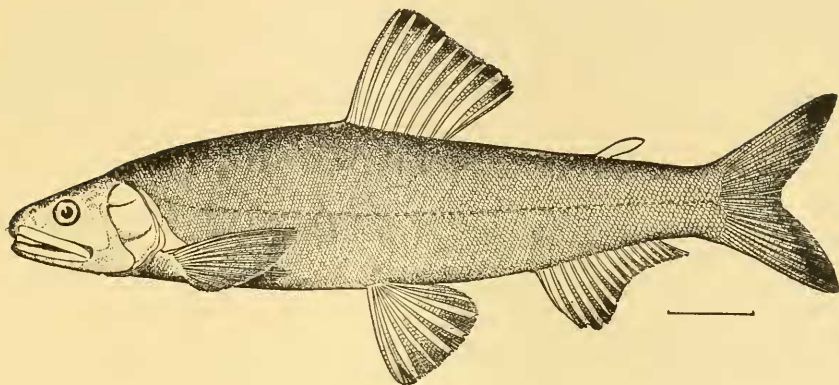


Fig. 25.

Family ARGENTINIDÆ.**Genus *Osmerus*** (Linnaeus) Lacépède.

Osmeri Linnaeus, Syst. Nat., 10th ed., 1758, p. 310. (*Salmo cperlanus* Linnaeus).

Osmerus Lacépède, Hist. Nat. Poiss., V, 1803, p. 229.

Type *Osmerus cperlanus* Linnaeus.

129. *Osmerus dentex* Steindachner.

Kyuri-uwo.

Osmerus dentex Steindachner, Sitzungsab. Kais. Akad. Wiss. Wien, LXI, 1870, p. 429. Decastris Bay, northern China.

Distrib.—Coasts of Alaska, south to Manchuria and northern Japan.

Genus *Hypomesus* Gill.

Mesopus Gill, Proc. Ac. Nat. Sci. Phila., 1862, p. 14. (Typographical failure to correct proof. Gill first wrote *Mesopus*, then changed to *Hypomesus*).

Hypomesus Gill, op. cit. 1862, p. 15.

Type *Argentina pretiosa* Girard.

130. *Hypomesus olidus* (Pallas).

Wakasagi; Chika.

Salmo (*Osmerus*) *olidus* Pallas, Zoogr. Ross.-Asiat., III, 1811, p. 391. Lakes and rivers of Kamchatka.

Distrib.—Northern Japan, north to Kamchatka and east to Alaska.

131. Hypomesus japonicus (Brevoort).

Yezo-wakasagi.

Osmerus olidus (called *Osmerus japonicus* on plate) Brevoort, Exped. Japan, 1856, p. 278, pl. X, fig. 2. Hakodate.

Distrib.—Aomori ; Kushiro ; Decastris Bay, Manchuria.

Genus Argentina (Artedi) Linnæus.

Argentina Artedi, Genera, 1738, p. 8.

Argentina Linnæus, Syst. Nat., 10th ed., 1758, p. 315.

Type *Argentina sphyæna* Linnæus.

132. Argentina kagoshimæ Jordan & Snyder.

Kagoshima-gisu.

Argentina kagoshimæ Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p. 590, fig. 5. Kagoshima.

Distrib.—Kagoshima.

133. Argentina semifasciata Kishinouye.

Nigisu or Migisu (Uwotsu Prov. E'Chū).

Argentina semifasciata Kishinouye, Zool. Mag., XVI, No. 185, 1904, p. 110. Bay of Toyama.

Distrib.—Bay of Toyama; Nagasaki.

Family MICROSTOMATIDÆ.**Genus Nansenia** Jordan & Evermann.

Nansenia Jordan & Evermann, Fish. N. M. America, I, 1896, p. 528.

Type *Microstomus grønlandicus* Reinhardt.

134. Nansenia grønlandica (Reinhardt).

Gin-sake-iwashi.

Microstomus grønlandicus Reinhardt, Vidensk. Selsk. Naturv. Mathem. Afhandl., VIII, 1841, LXXIV. Greenland.

Distrib.—Greenland ; Sagami Sea.

Family SALANGIDÆ.**Genus Salanx** Cuvier.

Salanx Cuvier, Règne Animal, 1st ed., 1817, p. 185.

Salangichthys Bleeker, Act. Soc. Sci. Nederl., VII, Japan, VI, 1879 p. 100.
(*Salanx* (*Salangichthys*) *microdon* Bleeker).

Type *Salanx cuvieri* Cuvier & Valenciennes.

135. *Salanx microdon* Bleeker.

Shirauwo.

Salanx (*Salangichthys*) *microdon* Bleeker, Act. Soc. Sci. Indo. Nederl., VII,
Japan, VI, p. 100. Yeddo (Tōkyō).

Distrib.—Japan ; Saghalien.

136. *Saranx ariakensis* (Kishinouye) Jordan & Snyder.

Ariake-shirauwo.

Salanx ariakensis Kishinouye Ms. in Jordan & Snyder, Proc. U. S. Nat.
Mus., XXIV, 1902, p. 592. Ariake Sea, Kiusiu.

Distrib.—Ariake Sea.

Family GONORHYNCHIDÆ.

Genus *Gonorhynchus* Gronow.

Gonorhynchus Gronow, Zoophylaceum, 1763. No. 199.

Type *Cyprinus gonorhynchus* Gmelin.

137. *Gonorhynchus abbreviatus* Temminck & Schlegel.

Nezumi-gisu.

Gonorhynchus abbreviatus Temminck & Schlegel, Fauna Japonica, Poiss.,
1846, p. 217, pl. CIII, fig. 4. Nagasaki.

Distrib.—Southern Japan.

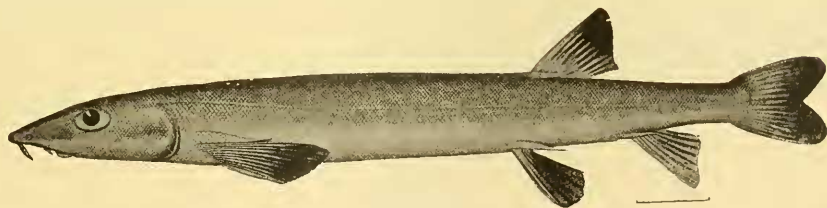


Fig. 26.

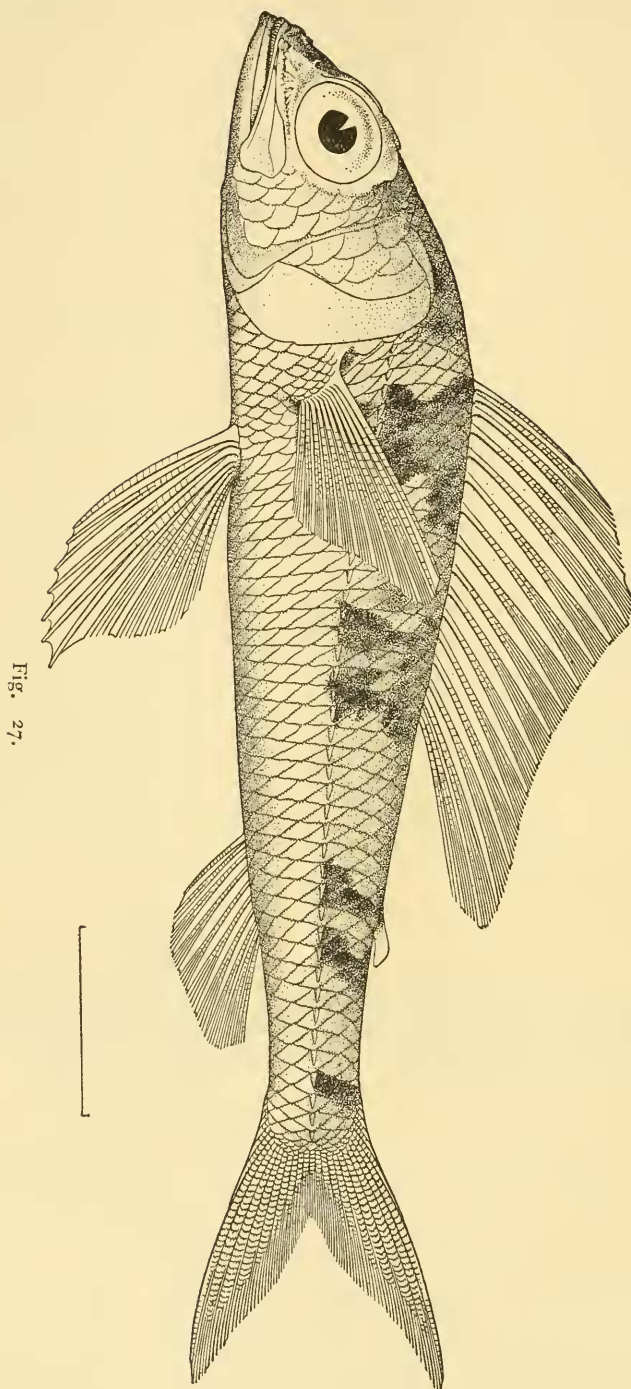
Order INIOMI.

Family AULOPIDÆ.

Genus *Aulopus* Cuvier.

Aulopus Cuvier, Règne Animal, 2nd ed, 2, 1829.

Type *Salmo filamentosus* Bloch.



138. *Aulopus japonicus* Günther. (Fig. 27).

Hime; Okinodojō.

Aulopus japonicus Günther, Shore Fish, Challenger, 1880, p. 72. Market of Yokohama.

Distrib.—Coasts of Japan.

Family SUDIDÆ.**Genus *Chlorophthalmus* Bonaparte.***Chlorophthalmus* Bonaparte, Fauna Italiaca, fasc. XXVIII, Pesci, 1840.Type *Chlorophthalmus agassizii* Bonaparte.**139. *Chlorophthalmus albatrossis* Jordan & Starks. (Fig. 28).**

Aome-eso.

Chlorophthalmus albatrossis Jordan & Starks, Bull. U. S. F. Commission, XXII, August 13, 1904, p. 579, fig. 1. Sagami Bay.

Distrib.—Sagami Sea.

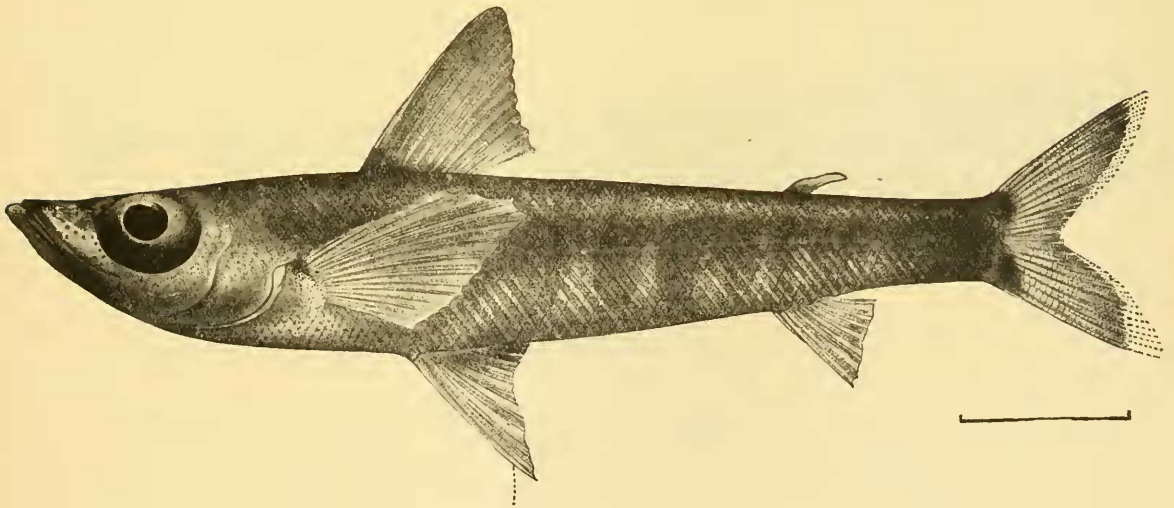


Fig. 28.

Genus *Lestidium* Gilbert*Lestidium* Gilbert, Bull. U. S. F. Commission, XXIII, August 5, 1905, p. 607.Type *Lestidium nudum* Gilbert.

140. *Lestidium japonicum* Tanaka.

Hadaka-eso.

Lestidium japonicum Tanaka, Annot. Zool. Jap., VII, pt. 1, Dec. 25, 1908, p. 27. Sagami Sea.

Distrib.—Sagami Sea.

Family CHAULIODONTIDÆ.**Genus Chauliodus** Bloch & Schneider.*Chauliodus* Bloch & Schneider, Syst. Ichth., 1801, p. 430.Type *Chauliodus sloanci* Bloch & Schneider.141. *Chauliodus emmelas* Jordan & Starks. (Fig. 29).

Hōrai-eso.

Chauliodus emmelas Jordan & Starks, Bull. U. S. F. Commission, XXII, August 13, 1904, p. 579, pl. I, fig. 2. Sagami Bay.

Distrib.—Sagami Sea.

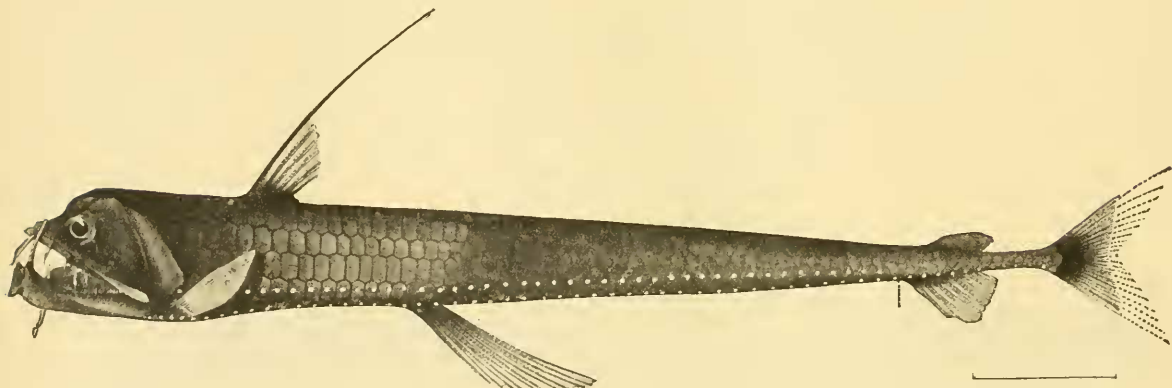


Fig. 29.

Family GONOSTOMIDÆ.**Genus Neostoma** (Vaillant) Filhol.*Neostoma* (Vaillant, ined.) Filhol, la Nature, 1884, p. 184.Type *Neostoma batyphillum* (Vaillant) Filhol.142. *Neostoma gracile* (Günther).

Yoko-eso.

Gonostoma gracile Günther, Ann. Mag. Nat. Hist., 1878, p. 187.—Günther, Deep Sea Fish. Challenger, 1887, p. 174, pl. XLV, fig. C. South of Japan.

Distrib.—Suruga Bay.

Family STOMIATIDÆ.**Genus *Lucifer* Döderlein.**

Lucifer Döderlein, Arch. f. Nat. (2), XLVIII, p. 26.

Type *Lucifer albipennis* Döderlein.

143. *Lucifer albipennis* Döderlein.

Hotai-eso.

Lucifer albipennis Döderlein, Arch. F. Nat. (2), XLVIII, p. 26, pl. III.
Enoshima.

Distrib.—Sagami Sea.

Family ASTRONESTHIDÆ.**Genus *Astronesthes* Richardson.**

Astronesthes Richardson, Ichth. Voy. Sulph., 1845. p. 97.

Type *Astronesthes nigra* Richardson.

144. *Astronesthes ijimai* Tanaka.

To'kage-hada'ka.

Astronesthes ijimai Tanaka, Jour. Coll. Sci. Tokyo, XXIII, Art. 13, July 28,
1908, p. 9, pl. I, fig. 1. Sagami Sea.

Distrib.—Sagami Sea.

Family MAUROLICIDÆ.**Genus *Maurolicus* Cocco.**

Maurolicus Cocco, Lett. su. Salmon., 1838, p. 32.

Type *Maurolicus amethystino-punctatus* Cocco = *Argentina pennanti*
Walbaum.

145. *Maurolicus pennanti* (Walbaum).

Kyuri-eso; Kyuri (Manadzuru, Prov. Idza).

Argentina pennanti Walbaum, Artedi Pisc., 1792, p. 47. England. (After
"Sheppy Argentine" of Pennant).

Distrib.—Open seas, widely distributed; Manadzuru, Prov. Idsu; Toyama Bay.

Family STERNOPTYCHIDÆ.**Genus *Sternoptyx* Hermann.**

Sternoptyx Hermann, Naturforscher, XVI, 1771, p. 8.

Type *Sternoptyx diaphana* Hermann.

146. *Sternoptyx diaphana* Hermann.

Mune-eso.

Sternoptyx diaphana Hermann, Naturforscher, XVI, 1771, p. 8. Jamaica.

Distrib.—Atlantic Ocean; off Hokkaidō.

Genus *Polyipnus* Günther.*Polyipnus* Günther, Deep Sea Fish, Challenger, XXII, 1887, p. 170.Type *Polyipnus spinosus* Günther.147. *Polyipnus stereope* Jordan & Starks. (Fig. 30).

Hōnen-eso.

Polyipnus stereope Jordan & Starks, Bull. U. S. Fish Commission, XXII,

August 13, 1904, p. 581, pl. 2, fig. 3. Sagami Bay.

Distrib.—Sagami Sea.

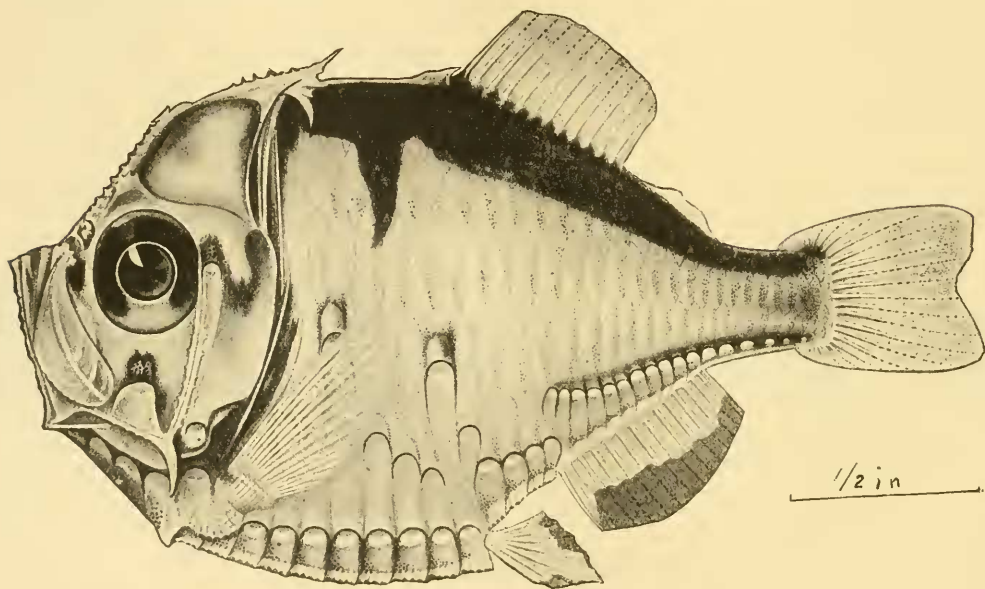


Fig. 30.

Family SYNODONTIDÆ.

Genus *Harpodon* Le Sueur.*Harpodon* Le Sueur, Journ. Ac. Nat. Sci. Phila., V, 1825, p. 50. (Misprinted Harpadon).Type *Salmo (Harpodon) microps* Le Sueur = *Osmernus nehereus* Hamilton & Buchanan.

148. Harpodon microchir Günther.

Midsu-tengu.

Harpodon microchir Günther, Ann. Mag. Nat. Hist., 1878, p. 487. Off Tōkyō.—

Günther, Shore Fishes, Challenger, 1880, p. 71. Tōkyō. (Same specimens).

Distrib.—Open Sea off Japan.

Genus Saurida Cuvier & Valenciennes.*Saurida* Cuvier & Valenciennes, Hist. Nat. Poiss., XXII, 1849, p. 499.Type *Salmo tumbil* Bloch.**149. Saurida argyrophanes** (Richardson).

Eso; Ma-eso; Niredo-eso.

Saurus argyrophanes Richardson, Ichth. China, 1846, p. 302. Canton. (Described from a drawing).*Aulopus elongatus* Temminck & Schlegel, Fauna Japonica, Poiss, 1846, p. 233, pl. CV, fig. 2. Nagasaki.

Distrib.—Coasts of southern Japan (Tōkyō) and China, southward to the Philippines.

150. Saurida eso Jordan & Herre.

Tokage-eso.

Sariuda eso Jordan & Herre, Proc. U. S. Nat. Mus., XXXII, June 15, 1907, p. 520, fig. 1. Wakanoura.

Distrib.—South coasts of Japan, south to Malaysia.

Genus Synodus Gronow.*Synodus* Gronow, Mus. Ichth., II, 1763, No, 151.Type *Synodus* Gronow = *Esox synodus* Linnæus.**151. Synodus japonicus** (Houttuyn).

Aka-eso; Tora-eso; Hirakutsu-eso; Hirakuchi-eso; Ise-eso.

Cobitis japonicus Houttuyn, Verh. Holl. Maat. Harlem, XX, 1782, p. 450. Nagasaki.*Saurus lucius* Temminck & Schlegel, Fauna Japonica, Poiss., 1847, p. 232, pl. CVI, fig. 1. Shimabara, near Nagasaki.

Distrib.—Western Pacific Ocean and coasts of Asia and India.

Genus Trachincephalus Gill.*Trachincephalus* Gill, Cat. Fish. Eastern Coast N. Amer., 1861, p. 53. (Name only. First defined in Proc. Acad. Nat. Sci. Phila., 1862, p. 241).Type *Salmo myops* Forster.

152. *Trachinocephalus myops* (Forster).

Oki-eso.

Salmo myops Forster, in Bloch & Schneider, Syst. Ichth., 1801, p. 421. St. Helena.

Saurus trachinus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 231, pl. CVI, fig. 2. Nagasaki.

Distrib.—Warm parts of Atlantic and Pacific ; coasts of Japan.

Family MYCTOPHIDÆ.**Genus Neoscopelus** Johnson.

Neoscopelus Johnson, Proc. Zool. Soc. Lond., 1863, p. 44.

Type *Neoscopelus macrolepidotus* Johnson.

153. *Neoscopelus alcocki* Jordan & Starks. (Fig. 31).

Sotōri-iwashi.

Neoscopelus alcocki Jordan & Starks, Bull. U.S. Fish Commission, XXII. Aug. 13, 1904, p. 580, pl. II, figs. 1, 2. Suruga.

Distrib.—Suruga and Sagami Seas.

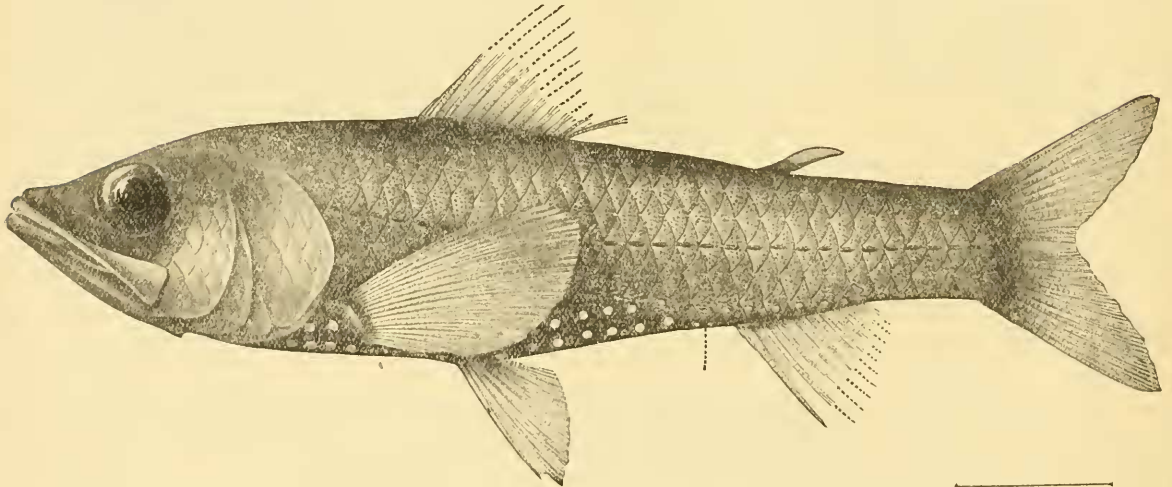


Fig. 31.

Genus Macrostoma Risso.

Macrostoma Risso, Europe Merid., III, 1826, p. 447.

Type *Scopelus angustidens* Risso.

154. *Macrostoma japonicum* (Tanaka).

Ōkuchi-iwashi.

Macrostoma quercinum japonicum Tanaka, Jour. Coll. Sci. Tokyo, XXIII, Art.

13, July 28, 1908, p. 5, pl. I, fig. 3. Probably off Misaki, Sagami.

Distrib.—Sagami Sea.

Genus *Diaphus* Eigenmann & Eigenmann.*Diaphus* Eigenmann & Eigenmann, Proc. Cal. Ac. Sci., 2d Series III, 1890, p. 4.Type *Diaphus theta* Eigenmann & Eigenmann.155. *Diaphus watasei* Jordan & Starks. (Fig. 32).

Hadaka-iwashi (Misaki, Sagami).

Diaphus watasei Jordan & Starks, Bull. U.S. Fish Commission, XXII, August

13, 1904, p. 580, fig. Off Atami, Sagami Bay.

Distrib.—Sagami Sea.

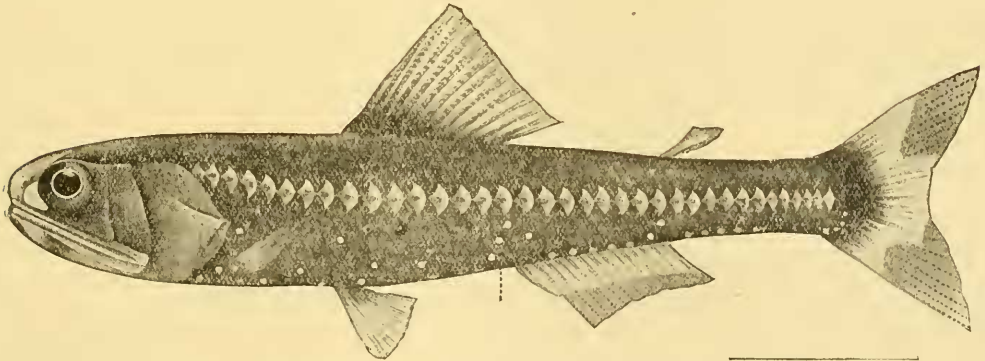


Fig. 32.

156. *Diaphus splendidus* (Brauer).

Gokuraku-iwashi.

Myctophum (Myctophum) splendidum Brauer, Zool. Anzeig., 28, Dec. 20,

1904, p. 399, fig. 7. Atlantic and Indian Oceans.

Distrib.—Indian Ocean; Atlantic Ocean; Sagami Sea.

Genus *Myctophum* Rafinesque.*Myctophum* Rafinesque, Indice d' Ittiologia Siciliana, 1810, p. 56.Type *Myctophum punctatum* Rafinesque.

157. *Myctophum affine* (Lütken).**Susuki-iwashi.***Scopelus affinis* Lütken, Spolia Atlantica, II, 1892, p. 32. Open Atlantic.

Distrib.—Atlantic ; Pacific ; Indian Ocean ; Prov. Sagami.

158. *Myctophum laternatum* Garman.**Ita-hadaka.***Myctopum laternatum* Garman, Mem. Mus. Comp. Zool. Harvard Coll., XXIV, 1899, p. 267, taf. 59, fig. 1.

Distrib.—Atlantic, Pacific, and Indian Oceans ; Sagami Sea.

Genus *Dasyscopelus* Günther.*Dasyscopelus* Günther, Cat. Fish. Brit. Mus., V. 1864, p. 405.Type *Myctophum asperum* Richardson.**159. *Dasyscopelus spinosus* (Steindachner).****Ibara-hadaka.***Scopelus spinosus* Steindachner, Sitzungs. Ichth. Notiz, V, 1867, p. 11. China.

Distrib.—Pacific, Atlantic, and Indian Oceans ; Sagami Sea.

Family *PLAGIODONTIDÆ*.**Genus *Plagyodus* Pallas.***Plagiodus* (Steller Ms.) Pallas, Zoogr. Ross.-Asiat., III, 1811, p. 383.Type *Alepidosarus æsculapius* Bean. (No specific name).**160. *Plagiodus ferox* (Lowe).****Saba-hadaka.***Alepisaurus ferox* Lowe, Trans. Zoöl. Soc. Lond., I, 1833, p. 395. Madeira.

Distrib.—Atlantic Ocean ; Yokohama.

Family *ATELEOPIDÆ*.**Genus *Ateleopus* Temminck & Schlegel.***Ateleopus* Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 255. (Not*Atcleopus* Duméril & Bibron, a genus of Reptiles).*Podateles* Boulenger, Zool. Record, XXXIX, 1902, Pisces, p. 23. (Substitute for *Atcleopus*).Type *Atcleopus japonicus* Bleeker.

161. *Ateleopus japonicus* Bleeker.

Shachi-furi.

Ateleopus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 255.
Nagasaki.*Ateleopus japonicus* Bleeker, Verhand. Batav. Genootsch., XXV, Nalez. Jap.,
1854, p. 19. After Temminck & Schlegel.

Distrib.—Tōkyō to Nagasaki.

Genus *Ijimaia* Sauter.*Ijimaia* Sauter, Annot. Zoolog. Jap., V, pt. IV, 1905, p. 235.Type *Ijimaia doefleini* Sauter.**162. *Ijimaia doefleini* Sauter.**

O-shachi-furi.

Ijimaia doefleini Sauter, Annot. Zool. Jap., V, pt. IV, 1905, p. 235, with fig.
Off Enoshima, Sagami.

Distrib.—Sagami Sea.

Order NEMATOGNATHI.**Family SILURIDÆ.*****Genus *Plotosus* Lacépède.***Plotosus* Lacépède, Hist. Nat. Poiss., V, 1803, p. 130.Type *Plotosus anguillaris* Lacépède.**163. *Plotosus anguillaris* Lacépède.****Gonzui** (Misaki, Sagami); **Yedomizu gonzui** (Misaki, Sagami); **Gigi**; **Shimagin**;
Umigigi.“*Plotosus Arab Boa vel Buja*” Forskål, Descript. Animal, 1775, p. XVI.
(Nonbinomial).*Plotosus anguillaris* Lacépède, Hist. Nat. Poiss., V, 1803, p. 130, pl. III, fig.
2. “Les Grandes Indes.”

Distrib.—Southern Japan.

*** Genus *Tachysurus* Lacépède.***Tachysurus* Lacépède, Hist. Nat. Poiss., 1803, p. 151, pl. V, fig 2.*Arius* Cuvier & Valenciennes, Hist. Nat. Poiss, XV, 1840, p. 52. (*Arius arius*
Cuvier & Valenciennes).Type *Tachysurus sinensis* Lacépède.

Genus *Parasilurus* Bleeker.

Glanis Agassiz, Proc. Amer. Acad., 1856, p. 333. (*Glanis aristotelis* Agassiz. The generic name *Glanis* preoccupied by *Glanis* Gronow, 1854.
Parasilurus Bleeker, Nederl. Tydschr. Dierk., 1863, p. 114.
 Type *Silurus asotus* Linnæus.

164. *Parasilus asotus* (Linnæus). (Fig. 33).

Namadsu.

Silurus asotus Linnæus, Syst. Nat., 10th ed., 1758, p. 501. Asia.
Silurus japonicus Temminck & Schlegel, Fauna Japonica, Poiss. 1846, p. 226,
 pl. CIV, fig. 1. Higo; Satsuma; Nagasaki.
 Distrib.—China; Japan.

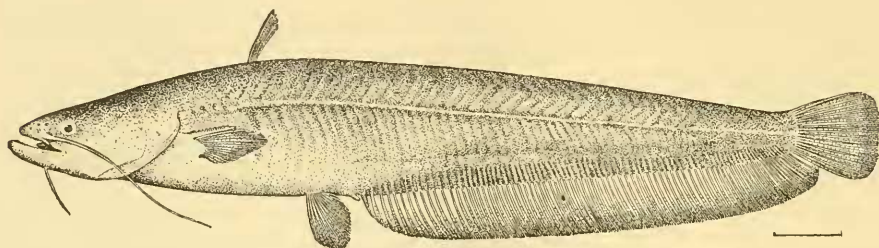


Fig. 33.

Genus *Fluvidraco* Jordan & Fowler.

Fluvidraco Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 904.
 Type *Pseudobagrus ransonnetii* Steindachner = *Pseudobagrus nudiceps* Sauvage.

***Tachysurus maculatus* (Thunberg).**

Silurus maculatus Thunberg, Vet. Acad. Nya. Handl., XIII, 1792, p. 31, pl. I,
 fig. 1. Japan. (Locality doubtful).

Genus *Leiocassis* Bleeker.

Leiocassis Bleeker, Ichthyol. Archipel. Indi. Prodrom. Siluroid, 1858, p. 139.
 Type *Bagrus pocillopterus* (Kuhl & van Hasselt) Cuvier & Valenciennes.

***Leiocassis longirostris* (Günther).**

Liocassis longirostris Günther, Cat. Fish., V, 1864, p. 87. Japan. (Locality doubtful).

165. *Fluvidraco nudiceps* (Sauvage). (Fig. 34).

Hagegigi.

Pseudobagrus nudiceps Sauvage, Bull. Soc. Philomat., 1883, p. 2. Lake Biwa.*Pseudobagrus ransonnetii* Steindachner, Fische Japans, IV, 1887, p. 287.

Ōsaka.

Distrib.—Rivers of Japan, common southward.



Fig. 34.

Genus *Pseudobagrus* Bleeker.*Pseudobagrus* Bleeker, Act. Soc. Sci. Indo-Nederl., VII, 1860, p. 87.Type *Bagrus aurantiacus* Temminck & Schlegel.166. *Pseudobagrus aurantiacus* (Temminck & Schlegel).

Gigi; Gibachi.

Bagrus aurantiacus Temminck & Schlegel, Fauna Japonica Poiss., 1846, p. 227, pl. CIV, fig. 2. Satsuma; Kurume; Higo.*Pseudobagrus tokiensis* Döderlein, Fische Japans, IV, 1887, p. 288. Tōkyō.

Distrib.—Streams throughout most of the islands of Japan.

Genus *Liobagrus* Hilgendorf.*Liobagrus* Hilgendorf, Sitzungs. Gesellsch. Naturforsch. Freund., Berlin, 1878, p. 1.*Neobagrus* Bellotti, Atti Soc. Ital., XXXIV, June 1892, p. 100 (*Neobagrus fuscus* Bellotti).Type *Liobagrus reini* Hilgendorf.

167. *Liobagrus reini* Hilgendorf. (Fig. 35).

Akaza; **Shichimyōzi** (Lake Biwa); **Hinamazu** (Lake Biwa); **Sasuri** (Prov. Sninano); **Sasori** (Prov. Shinano); **Akaze** (Prov. Shinano).

Liobagrus reini Hilgendorf, Sitz. Gessel. Naturfor. Freund., Berlin, 1878, p. 1. Southern Japan.

Neobagrus fuscus Bellotti, Atti Soc. Ital., XXXIV, June, 1892, p. 101, fig. Yokohama.

Liobagrus sugubii Regan, Ann. Mag. Nat. Hist., Feb., 1908, p. 152. Lake Biwa.

Distrib.—Almost all the streams of Japan.

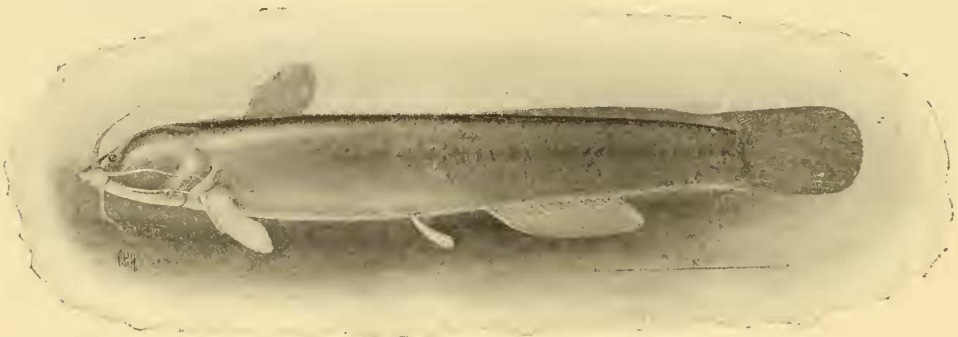


Fig. 35.

Order PLECTOSPONDYLI.

Family COBITIDÆ.

Genus *Misgurnus* Lacépède.

Misgurnus Lacépède, Hist. Nat. Poiss., V, 1803, 16.

Type *Cobitis fossilis* Linnæus.

168. *Misgurnus anguillicaudatus* (Cantor).

Dojō; **Numadojō** (Prov. Shinano); **Hondojo** (Prov. Shinano); **Ajime** (Prov. Shinano); **Jō** (Prov. Tosa).

Cobitis anguillicaudata Cantor, Ann. Mag. Nat. Hist., IX, 1842, p. 485.

Cobitis rubripinnis Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 220, pl. CIII, fig. 1. Near Nagasaki.

Cobitis maculata Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 221, pl. CIII, fig. 2. Near Nagasaki.

Cobitichthys enalios Bleeker, Act. Soc. Sci. Indo-Neerl., VIII, 1860, Japan, VI, p. 88, pl. II, fig. 4. Japan.

Cobitichthys dichachrous Bleeker, Act. Soc. Sci. Indo-Neerl., VIII, 1860, Japan, IV, p. 89, pl. II, fig. 2. Yeddo (Tōkyō).

Distrib.—Hakodate to Nagasaki.

169. *Misgurnus polynemus* (Bleeker).

Cobitichthys polynema Bleeker, Act. Soc. Sci. Indo-Neerl., VIII, 1860, p. 90, pl. II, fig. 3. Jeddo (Tōkyō).

Genus *Hymenophysa* McClelland.

Hymenophysa McClelland, Indian Cyprinidæ, 1838, p. 443.

Type *Cobitis hymenophysa* Bleeker.

170. *Hymenophysa curta* (Temminck & Schlegel).

Ayumodoki (Lake Biwa); *Umidojō* (Lake Biwa).

Cobitis curta Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 223, pl. CXII, fig. 4. Near Nagasaki.

Distrib.—Lake Biwa; Nagasaki.

Genus *Lefua* Herzenstein.

Octonema Herzenstein in Герценштейнъ и Варнаховскій. тр. Спб. О. Ест., XIX, 1887 стр. 47. (*Octonema preskei* Herzenstein = *Diplophysa costata* Kessler. The name *Octonema* preoccupied).

Lefua Herzenstein, Prezewalski's Fische, 1888, p. 91.

Elxis Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 768, fig. (*Elxis nikkonis* Jordan & Fowler).

Type *Octonema preskei* Herzenstein = *Diplophysa costata* Kessler.

171. *Lefua nikkonis* (Jordan & Fowler). (Fig. 36).

Yezo-hotoke.

Elxis nikkonis Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 768, fig. 1. Chitose, Prov. Iburi.

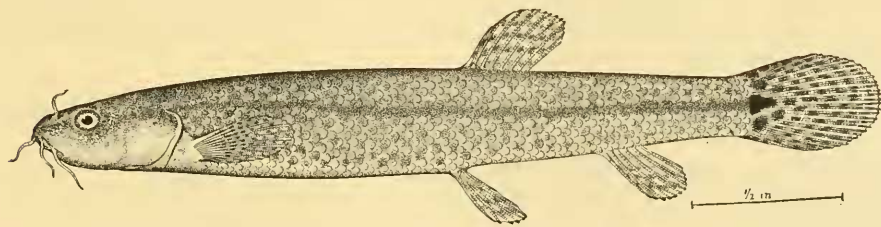


Fig. 36.

172. *Lefua echigonia* Jordan & Richardson. (Fig. 37).

Hotokedojo (Lake Biwa); Okamedojō (Prov. Shinano).

Lefua echigonia Jordan & Richardson, Proc. U. S. Nat. Mus., XXXIII, 1907, p. 264, fig. 1. Nagaoka, Prov. Echigo.

Distrib.—Echigo; Kanagawa; Rikuzen.

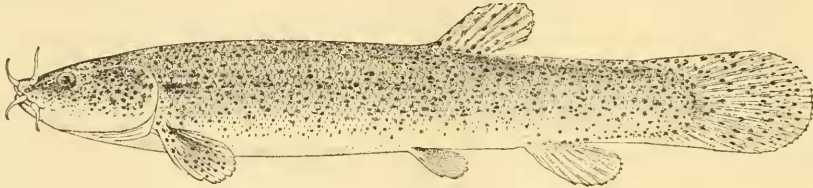


Fig. 37.

Genus *Orthrias* Jordan & Fowler.*Orthrias* Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 769.Type *Orthrias oreas* Jordan & Fowler.173. *Orthrias oreas* Jordan & Fowler.

Fukudojō.

Orthrias oreas Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 769, fig. 2. Chitose, Prov. Iburi.

Distrib.—Iburi; Saghalien.

Genus *Cobitis* (Artedi) Linnæus.*Cobitis* Artedi, Generi, 1738.*Cobitis* Linnæus, Syst. Nat., 10th ed., 1758, p. 303.Type *Cobitis tania* Linnæus.174. *Cobitis biwæ* Jordan & Snyder.

Shimadojō (Lake Biwa); Kurumadojō (name to a form of; Zeze, Prov. Ōmi); Gorinehō (near Gifu); Mugigaradojō (Gifu); Yanagidojō (Kanagawa; Prov. Shinano); Takano-hadojō; Ajimadojō (Prov. Shinano; Prov. Hida; Gifu); Tsurumakidojō (Prov. Shinano); Sasadojō (Prov. Shinano); G'rime (Prov. Shinano); Mugiwaradojō (Gifu); Sasajō (Prov. Tosa).

Cobitis tania japonica Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 222, pl. CIII, fig. 3. Near Nagasaki. (Not *Cobitis japonicus* Houttuyn).*Cobitis biwæ* Jordan & Snyder, Proc. U. S. Nat. Mus., 1901, p. 748. Lake Biwa. Substitute for *Cobitis japonica* Houttuyn, preoccupied.

Distrib.—Japan.

Family CYPRINIDÆ.

Genus Pseudoperilampus Bleeker.

Pseudoperilampus Bleeker, Versl. Med. Ak. Vet. Amst., XV, 1893, p. 235.

Type *Pseudoperilampus typus* Bleeker.

175. *Pseudoperilampus typus* Bleeker. (Fig. 38).

Zenitanago; Nigabuna; Tanago (Obama, Prov. Kadsusa).

Pseudoperilampus typus Bleeker, Versl. Ak. Vet. Amst., XV, p. 235. Tōkyō.

Distrib.—Fresh waters of central and northern Japan.

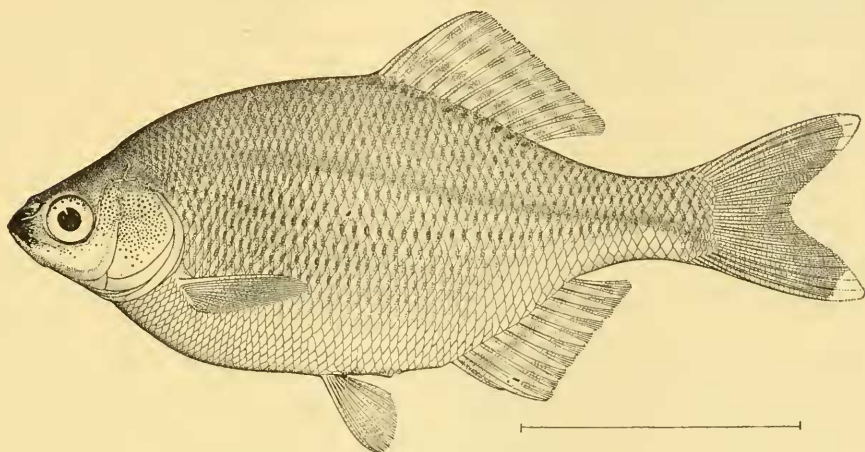


Fig. 38.

Genus Ischikauia Jordan & Snyder.

Ischikauia Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 346.

Type *Opsariichthys steenackeri* Sauvage.

176. *Ischikauia steenackeri* (Sauvage). (Fig. 39).

Wadaka; Watako; Uma-uwo (Lake Biwa).

Opsariichthys steenackeri Sauvage, Bull. Soc. Philom. Poiss., 1883, p. 3.

Lake Biwa.

Distrib.—Lake Biwa; Noyshiro; Yodo R.

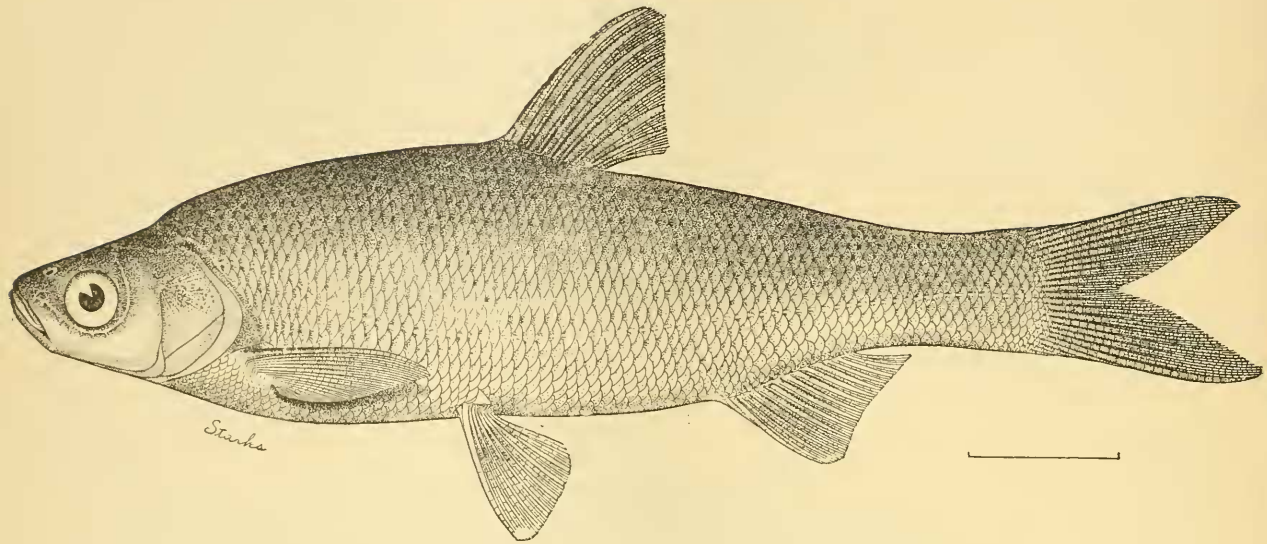


Fig. 39.

Genus *Paracheilognathus* Bleeker.

Paracheilognathus Bleeker, Atlas Ichth., III, 1863, p. 63.

Type *Capoëta rhombea* Temminck & Schlegel.

177. *Paracheilognathus rhombeum* (Temminck & Schlegel).

Kanehira ; Hirazako ; Hirabote (Lake Biwa); **Aburasenpara** (Gifu).

Capoëta rhombea Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 205, pl. C, fig. 6. Streams near Nagasaki.

Acheilognathus steenackeri Sauvage, Bull. Soc. Philom. Paris, 1883, p. 3. Lake Biwa.

Distrib.—Streams of central and southern Japan.

Genus *Acheilognathus* Bleeker.

Acheilognathus Bleeker, Ichth. Archipel. Indic. Prodr., II 1860, p. 228.

Type *Acheilognathus melanogaster* Bleeker=*Capoëta lanceolata* Temminck & Schlegel.

178. *Acheilognathus longipinne* Regan.

Biwa-Tanago.

Acheilognathus longipinnis Regan, Ann. Mag. Nat. Hist., Sept. 1905, p. 364. Yamasabu R., Lake Biwa.

Distrib.—Lake Biwa.

179. *Acheilognathus limbatus* (Temminck & Schlegel).**Tanago** (Tōkyō); **Bote** (Lake Biwa); **Senpara** (Gifu).*Capoëta limbata* Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 203, pl. C, fig. 5. Streams near Nagasaki.

Distrib.—Fresh waters of central and southern Japan.

180. *Acheilognathus lanceolatum* (Temminck & Schlegel).**Yaritanago**; **Aburazyako** (Lake Biwa).*Capoëta lanceolata* Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 202, pl. C, fig. 3. Streams about Nagasaki.*Acheilognathus melanogaster* Bleeker, Act. Soc. Sci. Indo. Nedrl. Japan, VI, p. 92, pl. II, fig. 1. Tōkyō.*Capoëta intermedia* Temminck & Schlegel, Fauna Japonica Poiss., 1846, p. 203, pl. C, fig. 4. Streams about Nagasaki.

Distrib.—Fresh waters of central and southern Japan.

181. *Acheilognathus cyanostigma* Jordan & Fowler. (Fig. 40).**Ichimonji-tanago.***Acheilognathus cyanostigma* Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 820, fig. 2. Lake Biwa at Matsubara.

Distrib.—Lake Biwa; Lake Yogo.

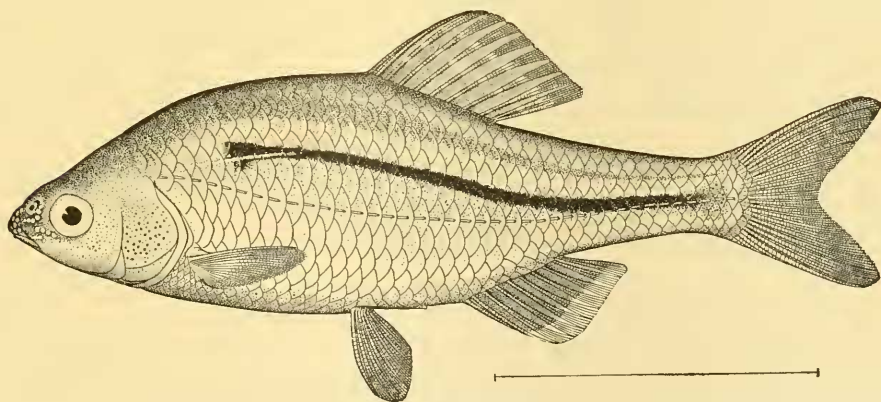


Fig. 40.

182. *Acheilognathus shimazui* Tanaka.**Aburabote** (Lake Biwa).*Acheilognathus shimazui* Tanaka, Annot. Zool. Jap., VII, pt. I, 1908, p. 4. Tokiwa on Lake Biwa.

Distrib.—Lake Biwa.

183. *Acheilognathus smithii* Regan.

Satotanago.

Acheilognathus smithii Regan, Ann. Mag. Nat. Hist., Feb. 1908, p. 150. R.
Yodogawa, Kyōto.

Distrib.—R. Yodogawa, Kyōto.

Genus *Gnathopogon* Bleeker.

Gnathopogon Bleeker, Ichth. Archipel. Indic. Prodr., II, 1860, p. 434.

Type *Capoëta elongata* Temminck & Schlegel.

184. *Gnathopogon elongatus* (Temminck & Schlegel).

Naga-tanago.

Capoëta elongata Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 200,
pl. C, fig. 1. Streams about Nagasaki.

Barbus homogenes Günther, Cat. Fish., VII, 1868, p. 136. After Temminck &
Schlegel, the name *elongatus* being preoccupied in *Barbus*.

Distrib.—Lake Biwa ; Nagasaki.

185. *Gnathopogon gracilis* (Temminck & Schlegel).

Ito-tanago.

Capoëta gracilis Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 201,
pl. C, fig. 2. Streams near Nagasaki.

Barbus homozonus Günther, Cat. Fish., VII, 1868, p. 137. After Temminck &
Schlegel, the name *gracilis* being preoccupied in *Barbus*.

Distrib.—Nagasaki.

Genus *Hemibarbus* Bleeker.

Hemibarbus Bleeker, Prodr. Cyprini, 1861, p. 281.

Type *Gobio barbus* Temminck & Schlegel.

186. *Hemibarbus barbus* (Temminck & Schlegel).

Migoi ; Sai or Soi (Lake Biwa) ; Nigoi (Gifu) ; Aramegoi (Prov. Shinano).

Gobio barbus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 198, pl.
XCIX, fig. 1. Near Nagasaki.

Barbus schlegelii Günther, Cat. Fish., VII, 1888, p. 135. Formosa.

Distrib.—Aomori to Formosa.

Genus *Parabarbus* Franz.

Parabarbus Franz, Abh. Bayer. Akad., 1910, p. 8.

Type *Parabarbus habilis* Franz.

187. *Parabarbus habilis* Franz.

Yokomigo.

Parabarbus habilis Franz, Abh. Bayer. Akad., 1910, p. 8, taf. III, fig. 8, text fig. 3. Aburatsubo, Sagami.

Distrib.—Sagami.

Genus *Leucogobio* Günther.*Leucogobio* Günther, Ann. Ac. Sci. Petersburg, 1896, p. 212.*Leucogobio herzensteini* Günther.**188. *Leucogobio güntneri* Ishikawa.**

Hon-moroko (Lake Biwa).

Leucogobio güntneri Ishikawa, Annot. Zool. Japon., III, pt. 4, April 30, 1901, p. 161. Maibara ; Matsubara etc., on Lake Biwa.

Distrib.—Fresh waters of central Japan.

189. *Leucogobio jordani* Ishikawa.

Yanagimoroko (Lake Biwa).

Leucogobio jordani Ishikawa, Annot. Zool. Japon., III, pt. 4, April 30, 1901, p. 163. Lake Biwa at Shiwotsu and Matsubara.

Distrib.—Lake Biwa.

190. *Leucogobio mayedæ* (Jordan & Snyder). (Fig. 41).

Dememoroko (Lake Biwa).

Gobio mayedæ Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 342, pl. IX, fig. 2. Lake Biwa, near Karasaki.

Distrib.—Lake Biwa ; Ōsaka ; Kurume ; Nagoya.

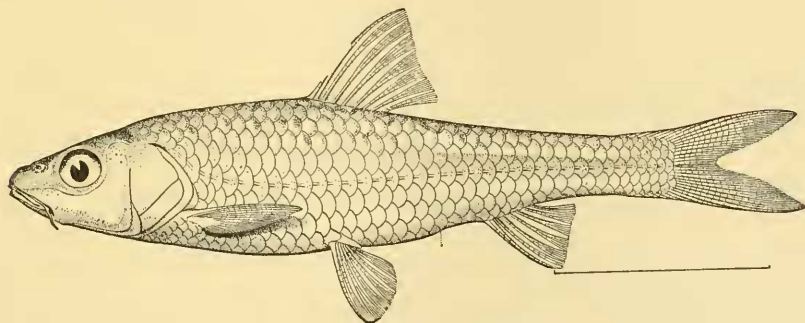


Fig. 41.

191. *Leucogobio biwæ* (Jordan & Snyder). (Fig. 42).

Biwa-Moroko.

Gobio biwæ Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 340, pl.

IX, fig. 1. Lake Biwa near Matsubara.

Distrib.—Lake Biwa.

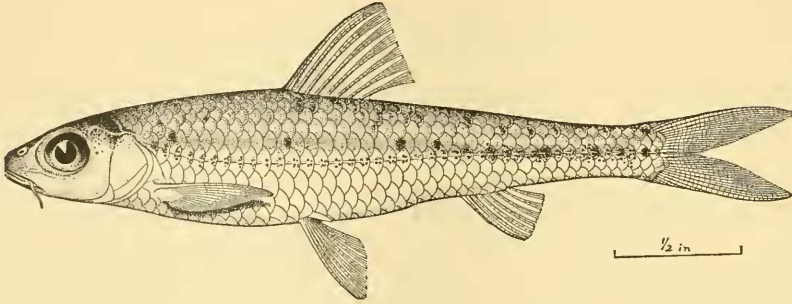


Fig. 42.

Genus *Pseudogobio* Bleeker.*Pseudogobio* Bleeker, Atlas Ichthyol., Cyprin., 1863, p. 29.Type *Gobio esocinus* Temminck & Schlegel.192. *Pseudogobio esocinus* (Temminck & Schlegel).

Kamatsuka (Lake Biwa); Kamasuka (Ōita); Kamadsuka, Sunamoguri, Zukō,
 Zugonbō, Kisu or Tsuchimuguri (Prov. Shinano); Yaginbo; Sunakujiri (Gifu);
 Asagara (Motoyama, Prov. Tōsa).

Gobio esocinus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 196, pl.

XCIX, fig. 2. Near Nagasaki.

Distrib.—Several streams of Japan.

Genus *Sarcocheilichthys* Bleeker.*Sarcocheilichthys* Bleeker, Cyprin. Prodr., 1860, p. 426.Type *Leuciscus variegatus* Temminck & Schlegel.193. *Sarcocheilichthys variegatus* (Temminck & Schlegel).

Higai (Lake Biwa); Sakurabae (Gifu); Aburahae.

Leuciscus variegatus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p.

213, pl. CII, fig. 2. Nagasaki.

Distrib.—Fresh waters of southern Japan.

Genus *Abbottina* Jordan & Fowler.

Abbottina Jordan & Fowler, Proc. U. S. Nat. Mus. XXVI, 1903, p. 835.

Type *Abbottina psegma* Jordan & Fowler.

194. *Abbottina psegma* Jordan & Fowler. (Fig. 43).

Doro-moroko.

Abbottina psegma Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 835, fig. 5. Yodo River at Ōsaka.

Distrib.—Yodo River at Ōsaka ; Chikugo R. at Kurume ; Iwai R. in Ichinoseki.

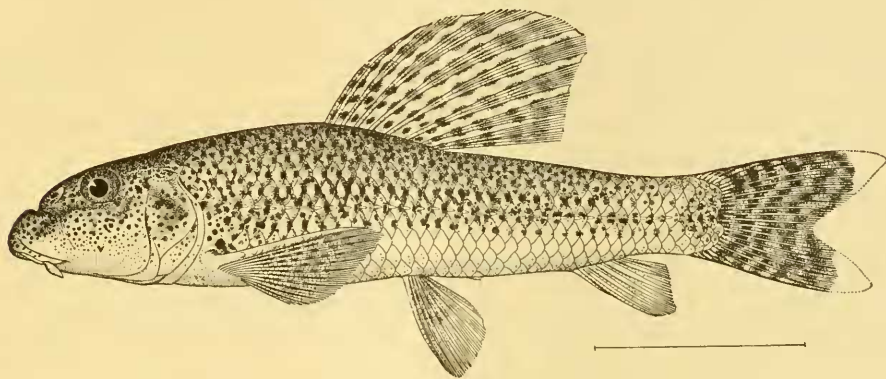


Fig. 43.

Genus *Zezera* Jordan & Fowler.

Zezera Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 837.

Type *Zezera hilgendorfi* (Ishikawa) Jordan & Fowler.

195. *Zezera hilgendorfi* (Ishikawa) Jordan & Fowler.

Mugitsuku.

Zezera hilgendorfi Ishikawa, in Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 837. Funayado, Kiusiu—Ishikawa, Proc. Dep. Nat. Hist. Tokyo Imp. Mus. I, 1904, p. 3, pl. II. Prov. Mimasaka.

Distrib.—Several streams of Japan.

Genus *Biwia* Jordan & Fowler.

Biwia Jordan & Fowler, Proc. U.S. Nat. Mus., XXVI, 1903, p. 838.

Type *Pseudogobio zezera* Ishikawa.

196. *Biwia zezera* (Ishikawa).

Zezera.

Pseudogobio zezera Ishikawa, Zool. Mag., VII, 1895, p. 127, with plate. Lake Biwa at Ōtsu, Maibara and Matsubara.

Distrib.—Lake Biwa ; Yodo River ; Ōsaka.

Genus *Pseudorasbora* Bleeker.

Pseudorasbora Bleeker, Act. Soc. Indo-Nedrl, Japan, VI, 1860, p. 97.

Type *Leuciscus parvus* Temminck & Schlegel.

197. *Pseudorasbora parva* (Temminck & Schlegel).

Motsugo (Prov. Tosa) ; Moro'ko ; Haya ; Aburafuna (Prov. Shinano).

Leuciscus parvus Temminck & Schlegel, Fauna, Japonica, Poiss., 1846, p. 215, pl. CII, fig. 3. Streams about Nagasaki.

Leuciscus pusillus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 216, pl. CII, fig. 4. Near Nagasaki.

Distrib.—Fresh waters of central and southern Japan.

Genus *Otakia* Jordan & Snyder.

Otakia Jordan & Snyder, Proc. U. S. Nat. Mus., 1900, p. 345.

Type *Otakia rasborina* Jordan & Snyder.

198. *Otakia rasborina* Jordan & Snyder. (Fig. 44).

Karasaki-ugui.

Otakia rasborina Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 345, pl. IX, fig. 3. Lake Biwa.

Distrib.—Lake Biwa.

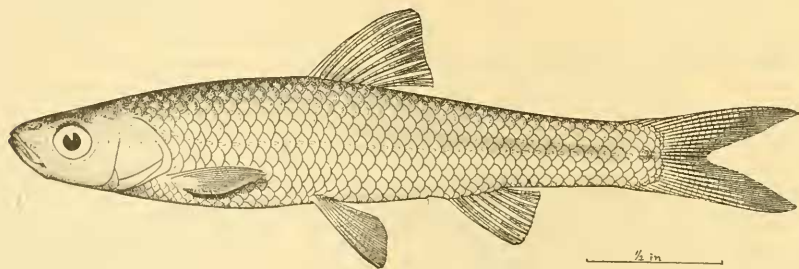


Fig. 44.

Genus *Tribolodon* Sauvage.

Tribolodon Sauvage, Bull. Soc. Philom. Paris, 1883, p. 16.

Type *Tribolodon purc'atum* Sauvage.

199. *Tribolodon punctatus* Sauvage.

Hoshi-ugui.

Tribolodon punctatum Sauvage, Bull. Soc. Philom. Paris, 1883, p. 6. Lake Biwa.

Distrib.—Lake Biwa.

Genus *Hemitremia* Cope.*Hemitremia* Cope, Proc. Amer. Philos. Soc., 1880, p. 462.Type *Hemitremia vittata* Cope.**200. *Hemitremia steindachneri* (Sauvage).**

Aburamutsu (Lake Biwa).

Phoxinus steindachneri Sauvage, Bull. Soc. Philom., Paris, 1883, p. 5. Lake Biwa.

Distrib.—Lake Biwa.

201. *Hemitremia septentrionalis* (Jordan & Seale). (Fig. 45).

Mutsu-ugui.

Phoxinus septentrionalis Jordan & Seale, Proc. U. S. Nat. Mus., XXX, 1906, p. 143, fig. 1. Small stream at Aomori.

Distrib.—Aomori.

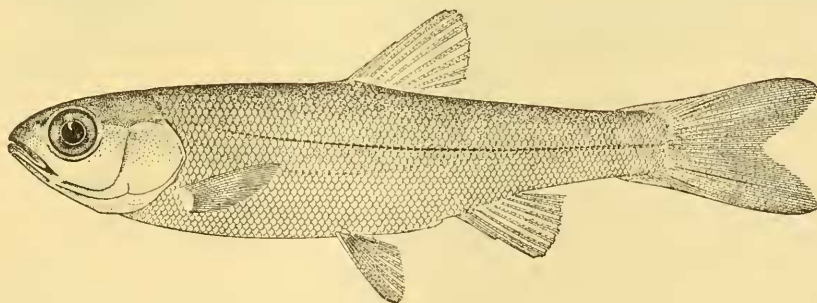


Fig. 45.

Richardsonius* Girard.Richardsonius* Girard, Proc. Acad. Sci. Phila., 1858, p. 201.Type *Cyprinus (Abramis) balteatus* Richardson.**202. *Richardsonius hakuensis* (Günther).**

Ugui (Hakone); Akauwo (Prov. Shinano); Ida (Prov. Tcsa).

Leuciscus hakuensis Günther, Shore Fishes Challenger, 1880, p. 72, pl. XXXI, fig. B. Lake Hakone.

Distrib.—Japan; Korea; Saghalien.

203. *Richardsonius cærulescens* (Sauvage).

Yayoi-ugui.

Squalius cærulescens Sauvage, Bull. Soc. Philom., Paris, 1883, p. 3. Lake Biwa.

Distrib.—Lake Biwa.

204. *Richardsonius japonicus* (Sauvage).

Gin-ugui.

Squalius japonicus Sauvage, Bull. Soc. Philom., Paris, 1883, p. 4. Lake Biwa.
Distrib.—Lake Biwa.**205. *Richardsonius phalacrocorax* (Jordan & Fowler). (Fig. 46).**

Tsumari-ugui.

Leuciscus phalacrocorax Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 845, fig. 7. Tama R. at Tachikawa.

Distrib.—Tama R; Kinu R. at Utsunomiya; Koshyu.

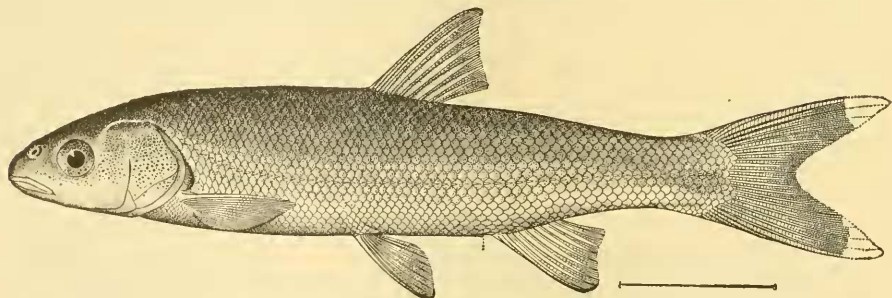


Fig. 46.

206. *Richardsonius taczanowskii* (Steindachner).

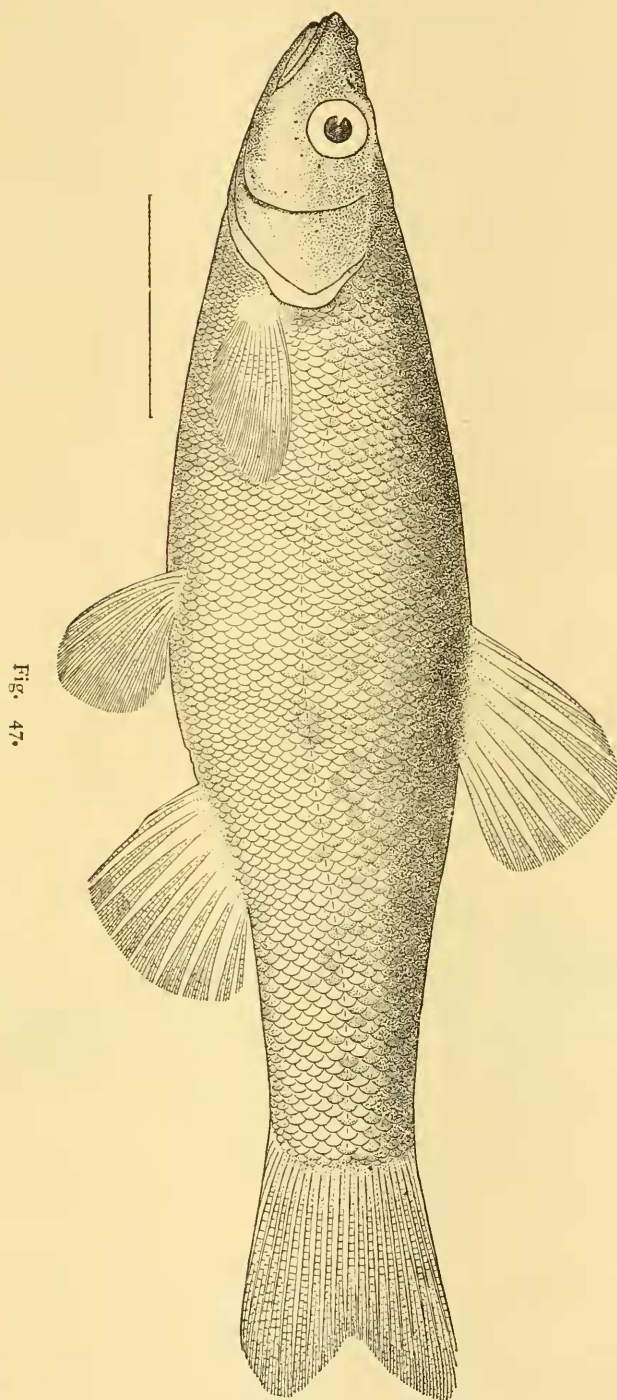
Oku-ugui.

Leuciscus taczanowskii Steindachner, Ichth. Beitr., X, 1881, p. 16. Sea of Japan.

Distrib.—Fresh waters of Japan.

207. *Richardsonius jouyi* (Jordan & Snyder). (Fig. 47).Aburahaya, Aburabai, Nigappaya, Ishibaya or Tarekan (Prov. Shinano);
Aburamutsu or Aburamoroko (Lake Biwa); Dorobae.*Leuciscus jouyi* Jordan & Snyder, Proc. U.S. Nat Mus., XXIII, 1901, p. 741, pl. XXXI. Sasuna, Prov. Tsushima.*Leuciscus dorobae* Ishikawa, Proc. Dep. Nat. Hist., Tokyo Imp. Mus., I, 1904, p. 6, pl. III, fig. 2.

Distrib.—Sasuna; Tsuchiura; Lake Biwa.



Genus *Rhodeus* Agassiz.

Rhodeus Agassiz, Mém. Soc. Hist. Nat. Neuchât., 1835, 1, p. 37.

Type *Cyprinus amarus* Bloch.

208. *Rhodeus miobuta* Tanaka.

Myōbuta (Obama, Prov. Kadsusa).

Rhodeus miobuta Tanaka, Jour. Coll. Sci. Tokyo, XXVII, Art. 8, Oct. 10, 1909, p. 12. Obama, Prov. Kadsusa.

Distrib.—Prov. Kadsusa.

209. *Rhodeus tanago* Tanaka.

Miyako-tanago.

Rhodeus tanago Tanaka, Jour. Coll. Sci. Tokyo, XXVII, Art. 8, Oct. 10, 1909, p. 10. A pond in the Botanical Garden at the Imperial University of Tōkyō.

Distrib.—Tōkyō.

210. *Rhodeus oryzæ* Jordan & Seale. (Fig. 48).

Aze-tanago.

Rhodeus oryzæ Jordan & Seale, Proc. U. S. Nat. Mus., XXX, 1906, p. 144, fig. 2. A rice field at Kawatana, northwest of Nagasaki.

Distrib.—Near Nagasaki.

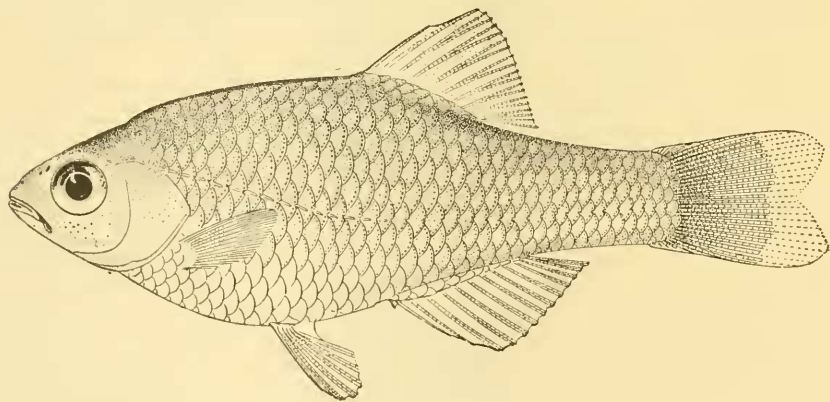


Fig. 48.

Genus *Zacco* Jordan & Evermann.

Zacco Jordan & Evermann, Proc. U. S. Nat. Mus., XXV, 1902, p. 322.

Type *Leuciscus platypus* Temminck & Schlegel.

211. *Zacco platypus* (Temminck & Schlegel).

Oikawa, Haya, or Hae (Lake Biwa); **Gago, Gagota, Akazu, Otokokago, or Onnakago** (Prov. Shinano).

Leuciscus platypus Temminck & Schlegel, Fauna Japonica, Poiss., 1840, p. 207, pl. CI, fig. 1. Streams of Nagasaki.

Leuciscus macropus Temminck & Schlegel, Fauna Japonica, Poiss., 1840, p. 209, pl. CI, fig. 2. Nagasaki.

Leuciscus minor Temminck & Schlegel, Fauna Japonica, Poiss., 1840, p. 210, pl. CI, fig. 3. Nagasaki.

Distrib.—Fresh waters of central and southern Japan.

212. *Zacco temminckii* (Temminck & Schlegel).

Kawamutsu or Mutsu (Lake Biwa); **Hae** (Prov. Tosa).

Leuciscus temminckii Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 210, pl. CI, fig. 4. Nagasaki.

Leuciscus sieboldii Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 211, pl. CI, fig. 5. Nagasaki.

Zacco mitsukurii Ishikawa Proc. Dept. Nat. Hist., Tokyo Imp. Mus., I, 1904, p. 4, pl. II, fig. 2. Katsura R., Prov. Yamashiro; Prov. Kii.

Distrib.—Fresh waters of central and southern Japan.

Genus *Opsariichthys* Bleeker.

Opsariichthys Bleeker, Atl. Ichthyol., Cyprin., 1860, p. 28.

Type *Leuciscus uncirostris* Temminck & Schlegel.

213. *Opsariichthys uncirostris* (Temminck & Schlegel).

Hasu (Lake Biwa).

Leuciscus uncirostris Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 211, pl. CII, fig. 2. Near Nagasaki.

Distrib.—Lake Biwa; Lake Yogo; ? Nagasaki; Yodo River at Ōsaka.

Genus *Cyprinus* (Artedi) Linnaeus.

Cyprinus Artedi, Generi, 1738.

Cyprinus Linnaeus, Syst. Nat., 10th ed., 1758, p. 320.

Type *Cyprinus carpio* Linnaeus.

214. *Cyprinus carpio* Linnæus.

Koi; **Yamotogoi** (name of a form in Lake Biwa); **Sarasa** (name of a form in Prov. Shinano).

Cyprinus carpio Linnæus, Syst. Nat., 10th ed., 1758, p. 320.

Distrib.—Europe; Asia.

Genus *Carassius* Nilsson.

Crassius Nilsson, Prodrömus, Ichthy. Scand., 1832.

Type *Cyprinus carassius* Linnæus.

215. *Carassius auratus* (Linnæus).

Funa; **Hiwara**, **Gengorōbuna**, **Ebisubuna**, **Kataikari** or **Momijibuna** (names of forms in Lake Biwa); **Yomebuna**, **Dorobuna** or **Koppa** (names of several forms in Prov. Shinano).

Cyprinus auratus Linnæus, Syst. Nat., 10th ed., 1758, p. 323.

Distrib.—Streams of Japan and China.

Order SYMBRANCHIA.**Family MONOPTERIDÆ.****Genus *Monopterus* Lacépède.**

Monopterus Lacépède, Hist. Nat. Poiss., II, 1798, p. 139.

Type *Monopterus javanensis* Lacépède = *Muraena alba* Zuiew.

216. *Monopterus albus* (Zuiew).

Taunagi or **Taunajau** (Riukiu).

Muraena alba Zuiew, Nov. Oct. Ac. Sci. Petropol., 1793, p. 299, pl. VII, fig. 2.

Distrib.—Fresh waters of China, Korea, Java, Borneo, Siam, Riukiu Islands, and Hondō, Japan.

Order APODES.**Family ANGUILLIDÆ.****Genus *Anguilla* Shaw.**

Anguilla Shaw, General Zoology, IV, 1804, p. 15.

Type *Muraena anguilla* Linnaeus.

217. *Anguilla japonica* Temminck & Schlegel.

Unagi; **Ōunagi**; **Gomaunagi**; **Rinzu-unagi** (Prov. Tosa); **Kanikui**.

Anguilla japonica Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 258, pl. CXIII, fig. 2. Nagasaki.

Distrib.—Hakodate to Nagasaki.

Family SIMENCHELYIDÆ.**Genus *Gymnosimenchelys* Tanaka.**

Gymnosimenchelys Tanaka, Journ. Coll. Sci. Tokyo, XXIII, Art. 13, July 28, 1908, p. 2.

Type *Gymnosimenchelys leptosomus* Tanaka.

218. *Gymnosimenchelys leptosomus* Tanaka.

Ebisu-unagi.

Gymnosimenchelys leptosomus Tanaka, Journ. Coll. Sci. Tōkyō, XXIII, Art. 13, July 28, 1908, p. 2, pl. II, fig. 2. Off Misaki, Sagami.

Distrib.—Sagami, Sea.

Genus *Simenchelys* Gill.

Simenchelys Gill, in Goods & Bean, Bull. Essex. Inst, 1879, p. 27.

Type *Simenchelys parasiticus* Gill.

219. *Simenchelys dofleini* Franz.

Kongō-unagi.

Simenchelys dofleini Franz, Abh. Bayer. Akad., 1910, p. 10, taf III, figs. 1 & 2. Sagami Bay.

Distrib.—Sagami Bay.

Family SYNAPHOBANCHIDÆ.**Genus *Synaphobranchus* Johnson.**

Synaphobranchus Johnson, Proc. Zool. Soc. London, 1862, p. 169.

Type *Synaphobranchus kaupii* Johnson.

220. *Synaphobranchus affinis* (Günther).

Hora-anago.

Synaphobranchus affinis Günther, Ann. Mag. Nat. Hist., XX, 1877, p. 445. Enoshima.

Distrib.—Coasts of Japan and southward to the Philippines.

221. *Synaphobranchus iraconis* Jordan & Snyder. (Fig. 49).

Irako-anago.

Synaphobranchus iraconis Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 844, fig. 1. Off Miyako, Prov. Rikuchū.

Distrib.—Miyako, Rikuchū.

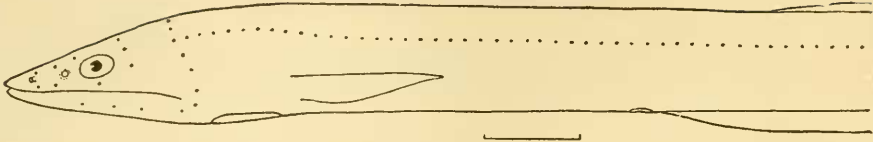


Fig. 49.

222. *Synaphobranchus jenkinsi* Jordan & Snyder. (Fig. 50).

Sode-anago.

Synaphobranchus jenkinsi Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 845, fig. 2. Off Enoshima in Sagami Bay.

Distrib.—Sagami Sea.

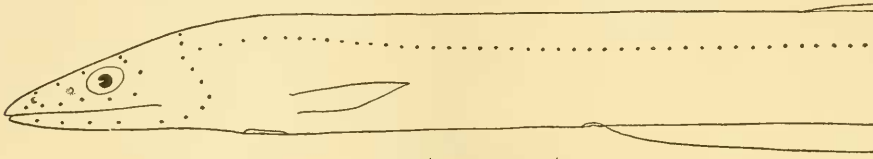


Fig. 50.

Genus *Histiobranchus* Gill.

Histiobranchus Gill, Proc. U. S. Nat. Mus., 1883, p. 255.

Type *Histiobranchus infernalis* Gill.

223. *Histiobranchus bathybius* (Günther).

Soko-unagi.

Synaphobranchus bathybius Günther, Ann. Mag. Nat. Hist., XX, 1877, p. 445; and in Voy. Challenger, 1887, p. 254, pl. LXII, fig. b. Off Tōkyō; North Pacific; Kerguelen Island.

Distrib.—Northern and western Pacific in deep water; Bering Sea.

Family **LEPTOCEPHALIDÆ.**

Genus *Leptocephalus* Scopoli.

Leptocephalus Scopoli, Int. Hist. Nat., 1777, p. 453.

Conger Cuvier, Règne Animal, 2nd ed., II, 1829, p. 350. (*Muraena conger* Linnæus).

Type *Leptocephalus morrissi* Gmelin. (Larval form of *Muraena conger* Linnæus).

224. *Leptocephalus japonicus* (Bleeker).

Hama-anago.

Conger japonicus Bleeker, Enumer. Espèce. Ic. Poiss. Japon, 1874, p. 32. Japan.

Distrib.—Japan.

225. *Leptocephalus heterognathus* (Bleeker).

Ai-anago.

Myrophis heterognathus Bleeker, Oct. Soc. Sci. Indo-Nedrl., V, Japan, p. 9, pl. III, fig. 1. Nagasaki. (Doubtful species probably based on young of *Leptocephalus nystromi*).

Distrib.—Nagasaki.

226. *Leptocephalus nystromi* Jordan & Snyder. (Fig. 51).

Tobi-anago.

Leptocephalus nystromi Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 853, fig. 5. Nagasaki. (Perhaps identical with *Leptocephalus heterognathus* as above suggested).

Distrib.—Southern Japan, north to Kōbe.

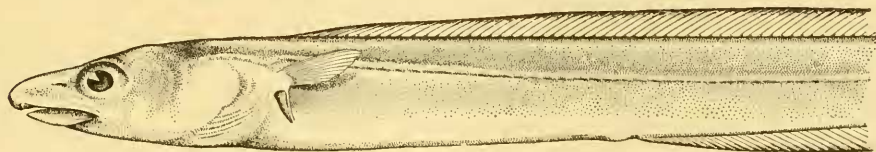


Fig. 51.

227. *Leptocephalus myriaster* (Brevoort).

Maanago or Hakarime (Tōkyō; Misaki, Sagami).

Anguilla myriaster Brevoort, U. S. Exped. Japan, 1856, p. 282, pl. XI, fig. 2.

From a rough but characteristic drawing made at Hakodate.

Distrib.—Hakodate to Nagasaki.

228. *Leptocephalus kinsuanus* Jordan & Snyder.

Kuro-anago.

Leptocephalus kinsuanus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 851. Hakata.

Distrib.—Hakata.

229. *Leptocephalus retrotinctus* Jordan & Snyder. (Fig. 52).

Tsumaguro-anago.

Leptocephalus retrotinctus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 853, fig. 6. Tōkyō Market.

Distrib.—Tōkyō.



Fig. 52.

230. *Leptocephalus flavirostris* Snyder.

Hana-anago.

Leptocephalus flavirostris Snyder, Proc. U. S. Nat. Mus., XXXV, 1908, p. 93. Misaki, Sagami.

Distrib.—Misaki, Sagami.

231. *Leptocephalus erebennus* Jordan & Snyder. (Fig. 53).

Dainan-anago; Kanikuianago.

Leptocephalus erebennus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 849, fig. 3. Misaki, Sagami.

Distrib.—Misaki, Sagami.

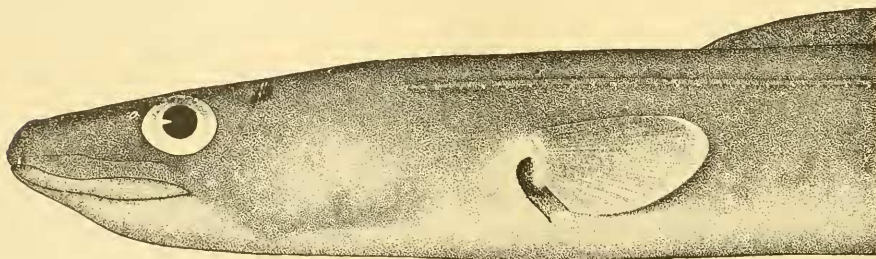


Fig. 53.

232. *Leptocephalus lacrymatus* (Franz).

Yoko-anago.

Leptocephalus lacrymatus Franz, Abh. Bayer, Akad., 1910, p. 7. Fukuura, Sagami. (Larva).

Distrib.—Sagami Sea.

233. *Leptocepholus anago* (Temminck & Schlegel). (Fig. 54).

Goten-anago.

Conger anago Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 259, pl. CXIII, fig 1. Nagasaki.

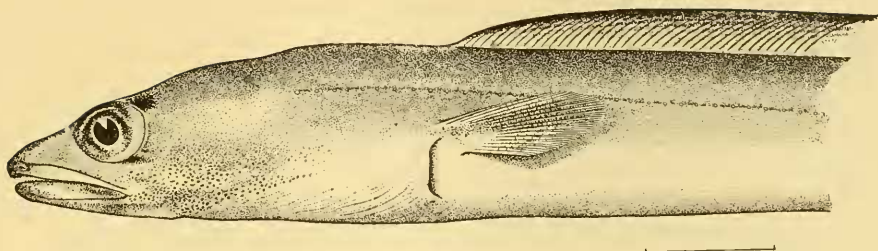


Fig. 54.

Congrellus neeki Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 347, pl. XI. Tōkyō.

Distrib.—Coasts of Japan and southward.

234. *Leptocephalus megastomus* (Günther). (Fig. 55).

Okianago.

Congromuræna megastoma Günther, Shore Fishes Challenger, 1880, p. 73.

Enoshima, from Japanese fishing boats.

Distrib.—Misaki, Sagami ; Tō'ōmi.

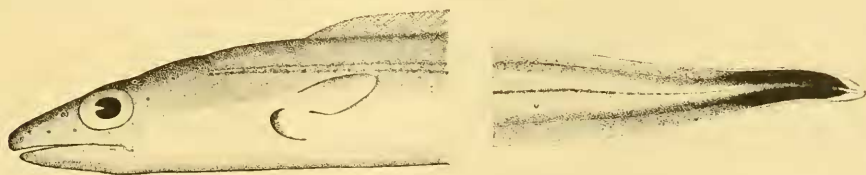


Fig. 55.

Family MURÆNESOCIDÆ.

Genus Murænesox McClelland.

Murænesox McClelland, Calcutta Journ. Nat. Hist., IV, 1843, p. 408.

Type *Murænesox tricuspidata* McClelland = *Muræna cinerea* Forskål.

235. *Murænesox cinereus* (Forskål).

Hamo; Hamu (Prov. Tosa).

Muræna cinerea or *tota cinerea* Forskål, Descr. Anim., 1775, pp. X, 22. Red Sea.

Conger hamo Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 262, pl. CXIV, fig. 2. Nagasaki.

Distrib.—East Indies, north to Japan.

Genus *Oxyconger* Bleeker.*Oxyconger* Bleeker, Atlas Ichth. Muræn., 1867, p. 19.Type *Conger leptognathus* Bleeker.**236. *Oxyconger leptognathus* Bleeker. (Fig. 56).**

Hashinaga-anago.

Conger leptognathus Bleeker, Act. Soc. Indo-Nedrl., III, Japan, IV, p. 27.
Nagasaki.

Distrib.—Nagasaki ; Tôkyô Market.



Fig. 56.

Family NETTASTOMATIDÆ.**Genus *Nettastoma* Rafinesque.***Nettastoma* Rafinesque, Caratteri, etc., 1810.Type *Nettastoma melanura* Rafinesque.**237. *Nettastoma parviceps* Günther.**

Kudsu-unagi.

Nettastoma parviceps Günther, Ann. Mag. Nat. Hist., XX, 1877, p. 446.South of Yeddo (Tôkyô); Rept. Challenger Fish., 1887, p. 253, pl. LXIII,
fig. A. Same specimen.

Distrib.—Sagami Sea.

Genus *Chlopsis* Rafinesque.*Chlopsis* Rafinesque, Indice Ittiol. Sicil., 1810, p. 58.Type *Chlopsis bicolor* Rafinesque.**238. *Chlopsis fierasfer* Jordan & Snyder. (Fig. 57).**

Ito-unagi.

Chlopsis fierasfer Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p.
860, fig. 10. Wakanoura, Prov. Kii.

Distrib.—Wakanoura.

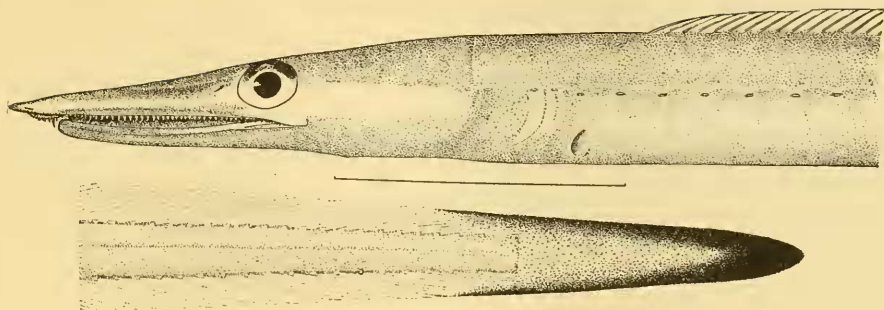


Fig. 57.

Family ECHELIDÆ.**Genus Echelus** Rafinesque.

Echelus Rafinesque, Caratteri, 1810, p. 63.

Myrus Kaup, Apodes, 1856, p. 31. (*Muræna myrus* Linnæus).

Type *Echelus punctatus* Rafinesque = *Muræna myrus* Linnæus, as restricted by Bleeker.

239. Echelus uropterus (Temminck & Schlegel).

Hire-unagi.

Conger uropterus Temminck & Schlegel, Fauna Japonica, Poiss., 1847, p. 261.
Nagasaki.

Distrib. — Nagasaki.

Genus Murænichthys Bleeker.

Murænichthys Bleeker, Verhand. Batavia, Gen. Muræn., XXV, 1853, p. 71.

Type *Muræna gymnopterus* Bleeker.

240. Murænichthys hattæ Jordan & Snyder. (Fig. 58).

Waka-unagi.

Murænichthys hattæ Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901,
p. 862, fig. 12. Wakanoura, Kii.

Distrib. — Wakanoura.

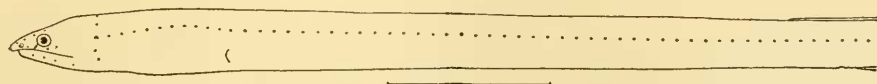


Fig. 58.

241. *Muraenichthys aoki* Jordan & Snyder. (Fig. 59).**Misaki-unagi.***Muraenichthys aoki* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 863, fig. 13. Misaki, Sagami.

Distrib.—Misaki, Sagami.

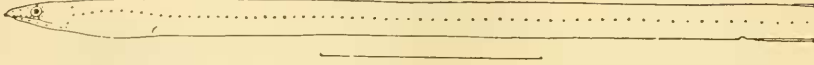


Fig. 59.

Family OPHICHTHYIDÆ.**Genus *Sphagebranchus* Bloch.***Sphagebranchus* Bloch, Ichthyologia, LX, 1795, p. 88.Type *Sphagebranchus rostratus* Bloch.**242. *Sphagebranchus moseri* Jordan & Snyder. (Fig. 60).****Goma-hebi-unagi.***Sphagebranchus moseri* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 864, fig. 14. Suruga Bay off Numadsu.

Distrib.—Suruga Bay.

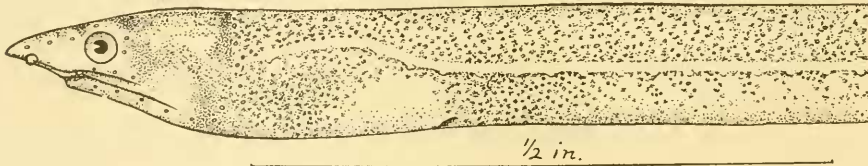


Fig. 60.

Genus *Pisoodonophis* Kaup.*Pisoodonophis* Kaup, Apodes, 1856, p. 17.Type *Ophisurus loto* Hamilton & Buchanan.**243. *Pisoodonophis zophistius* Jordan & Snyder. (Fig. 61).****Hotate-unagi.***Pisoodonophis zophistius* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 868, fig. 15. Asakusa Aquarium in Tōkyō, being taken outside the Bay of Tōkyō, near Misaki, Sagami. (May be identical with *Pisoodonophis cancrivorus* Richardson).

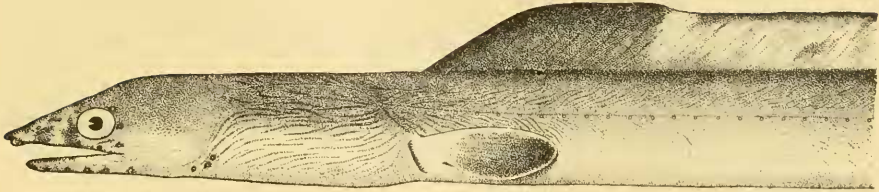


Fig. 61.

Genus *Xyrias* Jordan & Snyder.

Xyrias Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 868.

Type *Xyrias revulsus* Jordan & Snyder.

244. *Xyrias revulsus* Jordan & Snyder. (Fig. 62).

Yasa-unagi.

Xyrias revulsus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 869, fig. 16. Asakusa Aquarium in Tōkyō, being taken near Misaki, Sagami.

Distrib.—Misaki, Sagami.

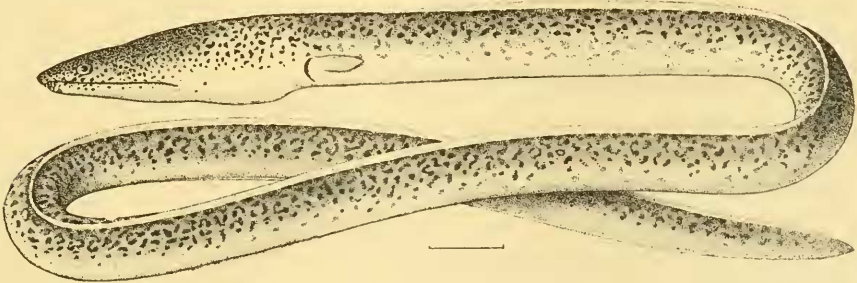


Fig. 62.

Genus *Microdonophis* Kaup.

Microdonophis Kaup, Apodes, 1856, p. 6.

Type *Microdonophis altipinnis* Kaup.

245. *Microdonophis erabo* Jordan & Snyder. (Fig. 63).

Mongaradōshi (Tōkyō).

Microdonophis erabo Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 870, fig. 17. Misaki, Sagami.

Distrib.—Misaki, Sagami; Bōshū; Okinawa.

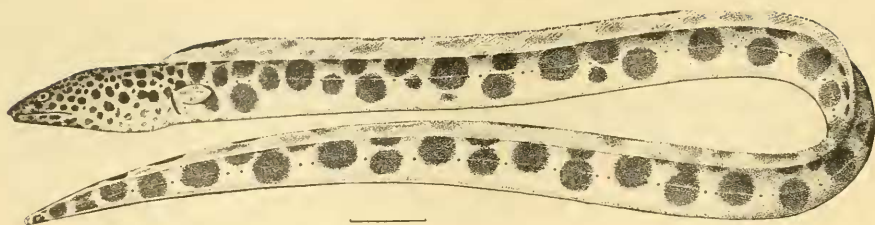


Fig. 63.

246. *Microdonophis intermedius* (Regan).

Seto-mongara-dōshi.

Ophichthys intermedius Regan, Ann. Mag. Nat. Hist., XV, 1905, p. 17.

Inland Sea, Japan.

Distrib.—Inland Sea, Japan.

Genus *Ophichthus* Ahl.*Ophichthus* Ahl, De Muræna et Ophichtho, 1789.Type *Ophisurus ophis* Lacépède.247. *Ophichthus urolophus* (Temminck & Schlegel).

Suso-hebiunagi.

Conger urolophus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 260, pl. CXIV, fig. 1. Nagasaki.

Distrib.—Nagasaki.

248. *Ophichthus tsuchidæ* Jordan & Snyder. (Fig. 64).

Ningyō-unagi.

Ophichthus tsuchidæ Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 873, fig. 19. Misaki, Sagami.

Distrib.—Misaki, Sagami.

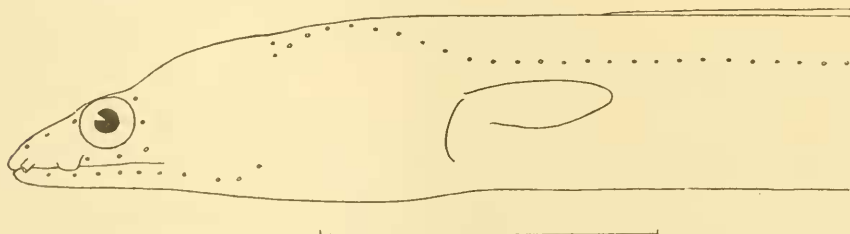


Fig. 64.

249. *Ophichthus haberi* Franz.

Kachidoki-hebi-unagi.

Ophichthus haberi Franz, Abh. Bayer. Acad., 1910, p. 13, taf. III, fig. 12.
Yokohama.

Distrib.—Yokohama.

250. *Ophichthus asakusæ* Jordan & Snyder. (Fig. 65).

Inaka-hebi-unagi.

Ophichthus asakusæ Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901,
p. 872, fig. 18. Asakusa Aquarium in Tōkyō, being taken outside the Bay
of Tōkyō, near Misaki, Sagami.

Distrib.—Misaki, Sagami.

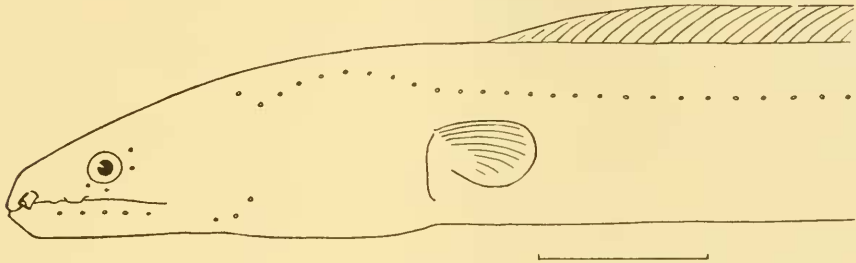


Fig. 65.

251. *Ophichthus evermanni* Jordan & Richardson.

Hōrai-hebi-unagi.

Ophichthus evermanni Jordan & Richardson, Mem. Carnegie Mus., IV, No.
4, p. 172, Pl. LXVII. Formosa.*Ophichthus cephalozona* var. Günther, Cat. Fish., VIII, 1870, p. 69. Japan
(Not of Bleeker).

Distrib.—Japan ; Formosa.

252. *Ophichthus stenopterus* Cope.

Kakehashi-hebi-unagi.

Ophichthus stenopterus Cope, Trans. Am. Phil. Soc., 1871, p. 482. Japan.

Distrib.—Japan.

Genus *Mystriophis* Kaup.*Mystriophis* Kaup, Apodes, 1856, p. 10.Type *Ophisurus rostellatus* Richardson.

253. *Mystriophis porphyreus* (Temminck & Schlegel).

Murasaki-hebi-unagi.

Ophisurus porphyreus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 265, pl. CXVI, fig. 1. Nagasaki.

Distrib.—Wakanoura, Kii ; Nagasaki.

Genus *Ophisurus* Lacépède.

Ophisurus Lacépède Hist, Nat. Poiss, II, 1802.

Oxystomus Rafinesque, Caratteri di Alcuni Generi, 1816, p. 62. (*Oxystomus hyalinus* Rafinesque = *Muraena serpens* Linnæus).

Type *Muraena serpens* Linnæus. (As restricted by Risso, 1826).

254. *Ophisurus macrorhynchus* Bleeker.

Umihebi ; Dainan-hebi.

Ophisurus macrorhynchus Bleeker, Verh. Bat. Gen. Muræn., XXV, 1852, p. 28. Japan.

Distrib.—Coasts of Japan.

Genus *Brachysomophis* Kaup.

Brachysomophis Kaup, Apodes, 1856, p. 9.

Type *Brachysomophis lorridus* Kaup.

255. *Brachysomophis rostellatus* (Richardson).

Tatsu-unagi.

Ophisurus rostellatus Richardson, Ichthyol. Ereb. & Terr., 1846, p. 105. Senegal.

Distrib.—West Africa ; Japan.

Family MORINGUIDÆ.**Genus *Cryptophthalmus* Franz.**

Cryptophthalmus Franz, Abh. Bayer. Acad., 1910, p. 15.

Type *Cryptophthalmus robustus* Franz.

256. *Cryptophthalmus robustus* Franz.

Gaisen-umihebi.

Cryptophthalmus robustus Franz, Abh. Bayer. Akad., 1910, p. 15, taf. III, fig. 11. Yokohama.

Distrib.—Yokohama.

Family MURÆNIDÆ.**Genus *Muræna* (Artedi) Linnaeus.**

Muræna Artedi, Ger. Pisc., 1738, p. 23. (In part ; includes all eels).

Muræna Linnaeus, Syst. Nat., 10th ed., 1758, p. 243.

Type *Muræna helena* Linnaeus etc.

257. *Muræna pardalis* Temminck & Schlegel.

Tora-utsubo.

Muræna pardalis Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 268,
pl. 119. Nagasaki.

Distrib.—East Indies, north to Japan.

Genus *Gymnothorax* Bloch.

Gymnothorax Bloch, Ichthyol., IX, 1795, p. 85.

Type *Gymnothorax reticularis* Bloch.

258. *Gymnothorax reticularis* Bloch.

Ami-utsubo.

Gymnothorax reticularis Bloch, Ausländische Fische, IX, 1795, p. 85, pl.
CCCCXVI. Indian Ocean.

Distrib.—China ; Japan.

259. *Gymnothorax albinmarginatus* (Temminck & Schlegel).

Herishiro-utsubo.

Muræna albinmarginata Temminck & Schlegel, Fauna Japonica, Poiss., 1846,
p. 267, pl. CXVIII. Nagasaki.

Distrib.—East Indies, north to Kiusiu.

260. *Gymnothorax wakanoura* Tanaka.

Waka-utsubo.

Gymnothorax wakanoura Tanaka, Journ. Coll. Sci. Tokyo, XXIII, Art. 7,
March 15, 1908, p. 24, pl. II, fig. 4. Wakanoura, Kii.

Distrib.—Wakanoura.

261. *Gymnothorax mioszowskii* (Steindachner).

Yuki-utsubo.

Muræna mioszowskii Steindachner, Reise Sr. Maj. Schiff Aurora, 1898, p.
222. Kōbe.

Distrib.—Kōbe.

262. *Gymnothorax kidako* (Temminck & Schlegel).**Utsubo; Kidako.***Muraena kidako* Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 266, pl. CXVII. Nagasaki.*Muraena similis* Richardson, Voy. Erebus and Terror, 1847, p. 83. Japan.

Distrib.—Misaki, Sagami to Tanegashima, Satsuma.

263. *Gymnothorax odiosus* Snyder.**Takasago-utsubo.***Gymnothorax odiosus* Snyder, Proc. U. S. Nat. Mus., XXXV, 1908, p. 94. Kagoshima.

Distrib.—Kagoshima.

264. *Gymnothorax laysanus* Steindachner.**Tane-utsubo.***Gymnothorax laysanus* Steindachner, Denks. Akad. Wiss. Wien, XVI, 1900, p. 177. Laysan Is.

Distrib.—Laysan Is.; Hawaii; Tanegashima.

Genus *Æmasia* Jordan & Snyder.*Æmasia* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 883.Type *Æmasia lichenosa* Jordan & Snyder.**265. *Æmasia lichenosa* Jordan & Snyder. (Fig. 66).****Koke-utsubo.***Æmasia lichenosa* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 883, fig. 20. Wakanoura, Kii.

Distrib.—Wakanoura; Misaki, Sagami.

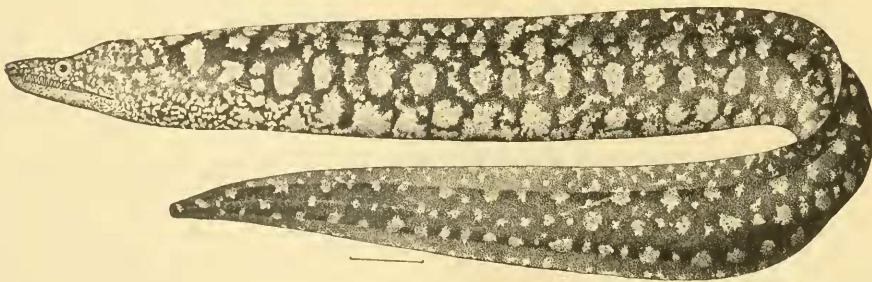


Fig. 66.

Genus Strophidon McClelland.*Strophidon* McClelland, Cal. Jour. Nat. Hist., V, 1884, p. 187.Type *Strophidon longicaulata* McClelland.**266. Strophidon brummeri** (Bleeker).

Oki-utsubo.

Muraena brummeri Bleeker, Nat. Tijds. Ned. Ind., XVII, p. 137. Timor.

Distrib.—East Indies ; Sagami (Franz).

Genus Uropterygius Rüppell.*Uropterygius* Rüppell, Neue Wirb., Fische, 1838, p. 83.Type *Uropterygius concolor* Rüppell.**267. Uropterygius okinawæ** Jordan & Snyder.

Kikai-utsubo.

Uropterygius okinawæ Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, p. 886, fig. 22. Okinawa.

Distrib.—Okinawa ; Sagami (Franz).

Order HAPLOMI.**Family PÆCILIIDÆ.****Genus Oryzias** Jordan & Snyder.*Oryzias* Jordan & Snyder, Proc. U. S. Nat. Mus., XXXI, 1906, p. 289.Type *Pæcilia latipes* Temminck & Schlegel.**268. Oryzias latipes** (Temminck & Schlegel). (Fig. 67).

Medaka ; Aburako (Prov. Tosa).

Pæcilia latipes Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 224, pl. CII, fig. 5. Nagasaki.

Distrib.—Rice fields and pools of Japan ; Riu-Kiu Islands.

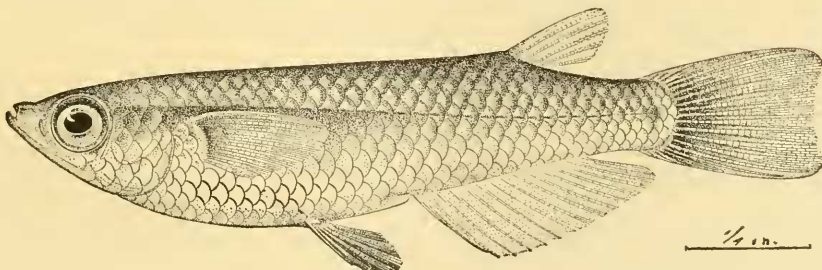


Fig. 67.

Genus *Fundulichthys* Bleeker.

Fundulichthys Bleeker, Conspectus Syst. Cyprinorum, 1860, p. 439.

Type *Fundulus virescens* Temminck & Schlegel.

269. *Fundulichthys virescens* (Temminck & Schlegel).

Ōmedaka; Akitabira.

Fundulus virescens Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 225, pl. CII, fig. 6. Nagasaki.

Distrib.—Streams of Southern Japan.

Order HETEROMI.**Family NOTACANTHIDÆ.****Genus *Macdonaldia* Good & Bean.**

Macdonaldia Good & Bean, Proc. U. S. Nat. Mus., 1894 (1895), p. 467, and in Oceanic Ichthyology, 1895, p. 172.

Type *Notacanthus rostratus* Collett.

270. *Macdonaldia challenger* (Vaillant).

Sokc-gisu.

Notacanthus rissoanus Günther, Fishes Challenger, XXII, part LVII, pl. LXI, fig. B, 1887, not of Filippi & Vérany.

Notacanthus challenger Vaillant, Exped. Travailleur et Talisman, 1888, p. 387. South of Yedo (Tōkyō). Based on Günther's description.

Distrib.—South of Tōkyō; Bering Sea.

Order HYPOSTOMIDES.**Family PEGASIDÆ.****Genus *Pegasus* Linnaeus.**

Pegasus Linnaeus, Syst. Nat., 10th ed., 1758, p. 338.

Zalises Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p. 2.

(*Pegasus draconis* Linnaeus).

Type *Pegasus volitans* Linnaeus.

271. *Pegasus umitengu* (Jordan & Snyder). (Fig. 69).

Umitengu (Misaki, Sagami).

Zalises umitengu Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p.

2. Prov. Kii. (Perhaps identical with *Pegasus draconis* Linnaeus).

Distrib.—Prov. Kii ; Misaki, Sagami.

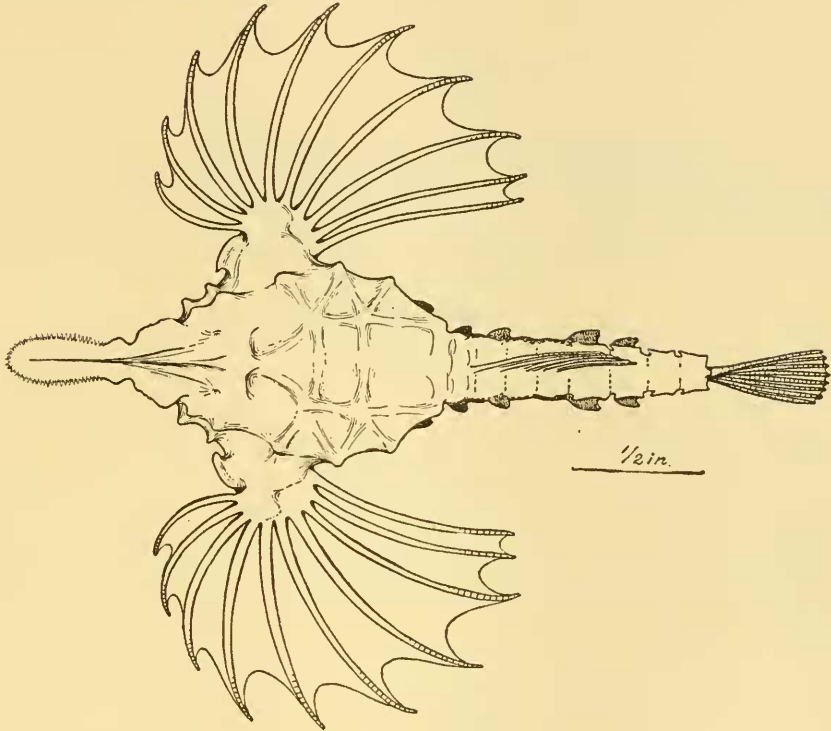


Fig. 68.

Order LOPHOBRANCHII.

Family SOLENOSTOMIDÆ.

Genus *Solenostomus* Lacépède.

Solenostomus Lacépède, Hist. Nat. Poiss., V, 1803, p. 36.

Type *Fistularia paradoxa* Pallas.

272. *Solenostomus cyanopterus* (Bleeker). (Fig. 69).

Kamisori-uwo.

Solenostoma cyanopterus Bleeker, Nat. Hist. Ned. Ind., VI, p. 506. Hawaii ;
Ceram.

Distrib.—Japan to Zanzibar.

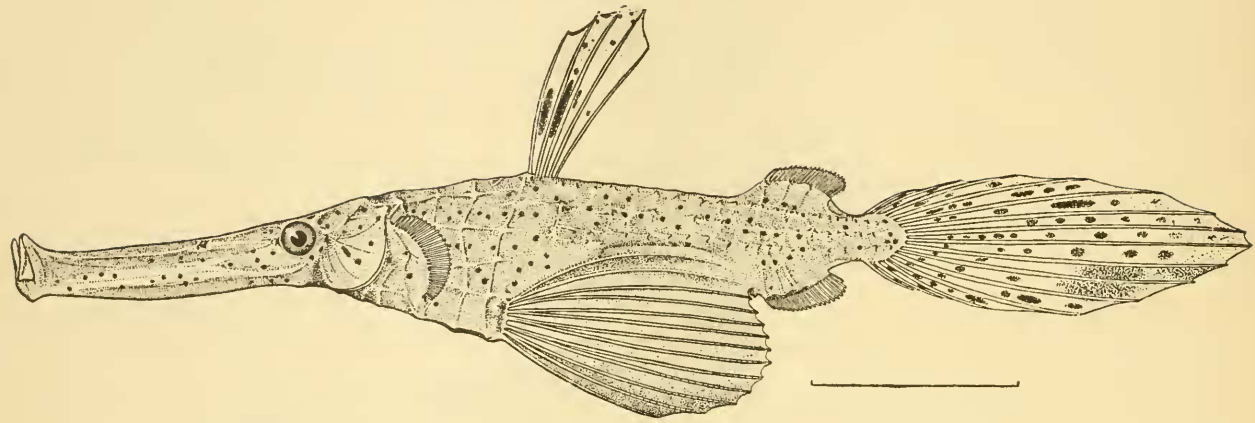


Fig. 69.

273. *Solenostomus paradoxus* (Pallas). (Fig. 70).**Huurai-uwo.**

Fistularia paradoxa Pallas, Spicilegia, VIII, 1770, p. 32, pl. IV, fig. 6.
Amboyna.

Solenostomus leptosoma Tanaka, Annot. Zool. Jap., 1908, p. 29, fig. Sagami
Sea.

Distrib.—East Indies to Sagami Sea.

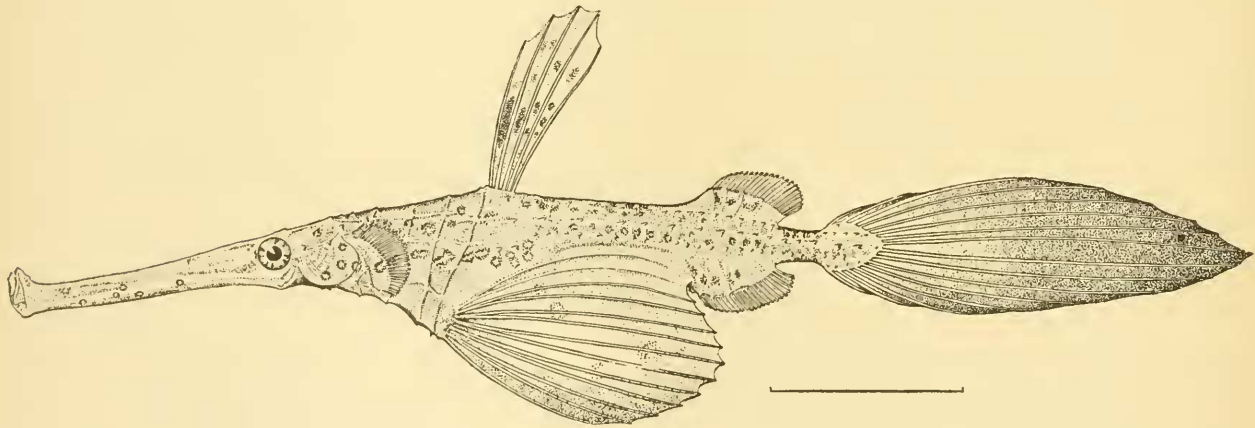


Fig. 70.

Family SYNGNATHIDÆ.**Genus *Syngnathus* Linnaeus.**

Syngnathus Linnaeus, Syst. Nat., 10th ed., 1758, p. 416.

Siphostoma Rafinesque, Caratteri Nuovi Generi, 1810, p. 18. (*Syngnathus acus*
Linnaeus).

Type *Syngnathus acus* Linnaeus.

274. *Syngnathus schlegeli* Kaup.

Yōzi-uwo.

Syngnathus tenuirostris Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 273, pl. CXX, fig. 5. Nagasaki. (Not *Syngnathus tenuirostris* Rathke).
Syngnathus schlegeli Kaup. Lophobr., 1856, p. 46. Nagasaki. After Temminck & Schlegel.

Distrib.—Bays of Japan, from Hokkaidō to Nagasaki.

275. *Syngnathus yoshi* (Snyder).

Yoshi-uwo.

Siphostoma yoshi Snyder, Proc. U. S. Nat. Mus., XXXVI, 1909, p. 597.
 Tanegashima, Satsuma.

Distrib.—Tanegashima, Satsuma.

Genus *Gasterotokeus* Heckel.

Gasterotokeus Heckel in Kaup, Lophobr. Fish, 1856, p. 18.

Type *Syngnathus biaculeatus* Bloch.

276. *Gasterotokeus biaculeatus* (Bloch).

Toge-yōzi.

Syngnathus biaculeatus Bloch, Ichthyol., IV, 1787, p. 10, pl. CXXI, figs. 1, 2
 East Indies.

Distrib.—East Indies, north to Japan.

Genus *Halicampus* Kaup.

Halicampus Kaup, Lophobr., 1856, p. 22.

Type *Halicampus conspicillatus* Kaup (not *Syngnathus conspicillatus* Jenyns) = *Syngnathus grayi* Kaup.

277. *Halicampus grayi* Kaup.

Umi-yakko.

Halicampus conspicillatus Kaup, Lophobr., 1856, p. 22. "India," New Holland. (Not *Syngnathus conspicillatus* Jenyns).

Halicampus grayi Kaup, Manuscript British Museum, Lophobr., 1856, p. 22.
 "India." (Noted by Kaup in synonymy).

Syngnathus koilomatodon Bleeker, Act. Soc. Sci. Indo Nederl., Japan, V, p. 10, pl. I, fig. 1. Nagasaki.

Distrib.—Coasts of Japan and southward.

Genus *Trachyrhamphus* Kaup.*Trachyrhamphus* Kaup, Lophobr., 1856, p. 23.Type *Trachyrhamphus serratus* Kaup (not *Syngnathus serratus* Temminck & Schlegel).**278. *Trachyrhamphus serratus* (Temminck & Schlegel).**

Hifuki-yōzi.

Syngnathus serratus Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 272, pl. CXX, fig. 4. Nagasaki.

Distrib.—Coasts of Japan and China.

Genus *Yozia* Jordan & Snyder.*Yozia* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 8.Type *Yozia wakanouræ* Jordan & Snyder.**279. *Yozia wakanouræ* Jordan & Snyder. (Fig. 71).**

Waka-yōzi.

Yozia wakanouræ Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 8, pl. VI. Wakanoura.

Distrib.—Wakanoura.

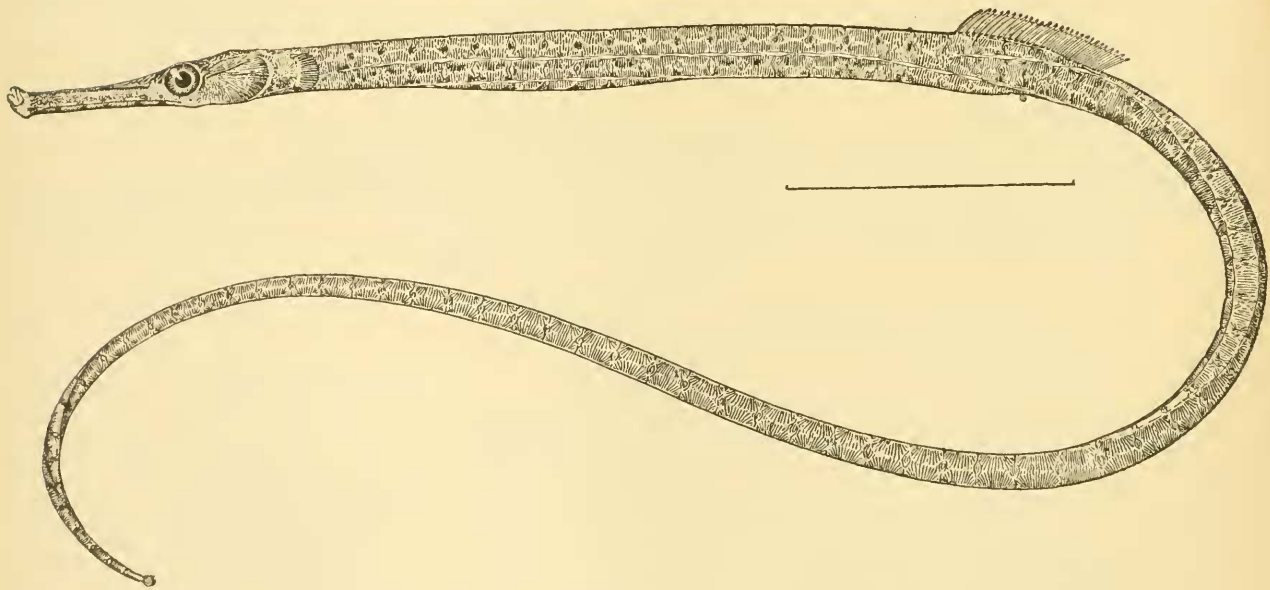


Fig. 71.

Genus *Corythoichthys* Kaup.*Corythoichthys* Kaup, Lophobr., 1856, p. 25.Type *Corythoichthys albirostris* Kaup.280. *Corythoichthys quinquarius* Snyder.

Genroku-yōzi.

Corythoichthys quinquarius Snyder, Proc. U. S. Nat. Mus., XL, 1911, p. 526. Kagoshima.

Distrib.—Kagoshima.

281. *Corythoichthys isigakius* Jordan & Snyder.

Ishi-yōzi.

Corythoichthys isigakius Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 7, pl. V. Yaeyama, Ishigaki Island, Riukiu Group.

Distrib.—Ishigaki Island; Nagasaki; Haneda, Musashi.

282. *Corythoichthys tanakæ* Jordan & Starks. (Fig. 72).

Kanmuri-yōzi.

Corythoichthys tanakæ Jordan & Starks, Proc. U.S. Nat. Mus., XXX, p. 696, fig. 2. Tanegashima.

Distrib.—Tanegashima.

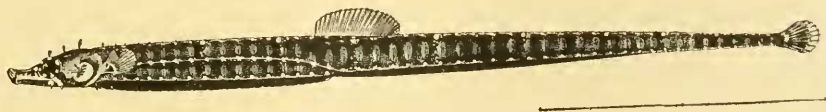


Fig. 72.

Genus *Acentronura* Kaup.*Acentronura* Kaup, Lophobr., 1856, p. 18.Type *Hippocampus gracilissimus* Temminck & Schlegel.283. *Acentronura gracilissima* (Temminck & Schlegel).

Tatsu-no-itoko.

Hippocampus gracilissimus Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 274, pl. CXX, fig. 6. Nagasaki.

Distrib.—Coast of Japan.

Genus *Hippocampus* Rafinesque.*Hippocampus* Rafinesque, Indice d'Ittilogia Siciliana, 1810, p. 27.Type *Syngnathus hippocampus* Linnæus.284. *Hippocampus kelloggi* Jordan & Snyder. (Fig. 73).

Ō-umi-uma.

Hippocampus kelloggi Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901,
p. 14, pl. VIII. Kagoshima.

Distrib.—Kagoshima ; Kashiwajima, Tosa.

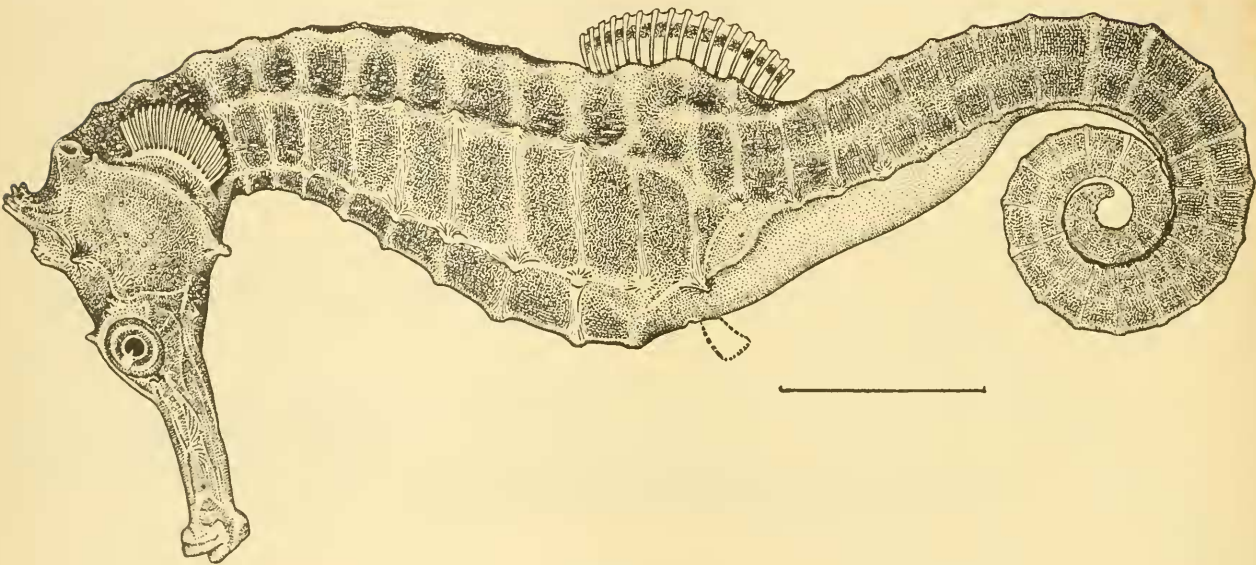


Fig. 73.

285. *Hippocampus mohnikei* Bleeker. (Fig. 74).

Hana-tatsu.

Hippocampus mohnikei Bleeker, Verh. Ak. Met. Amst., 1851, pp. 7, 16.

Kaminoseki, Suwō.

Distrib.—Kaminoseki, Suwō.

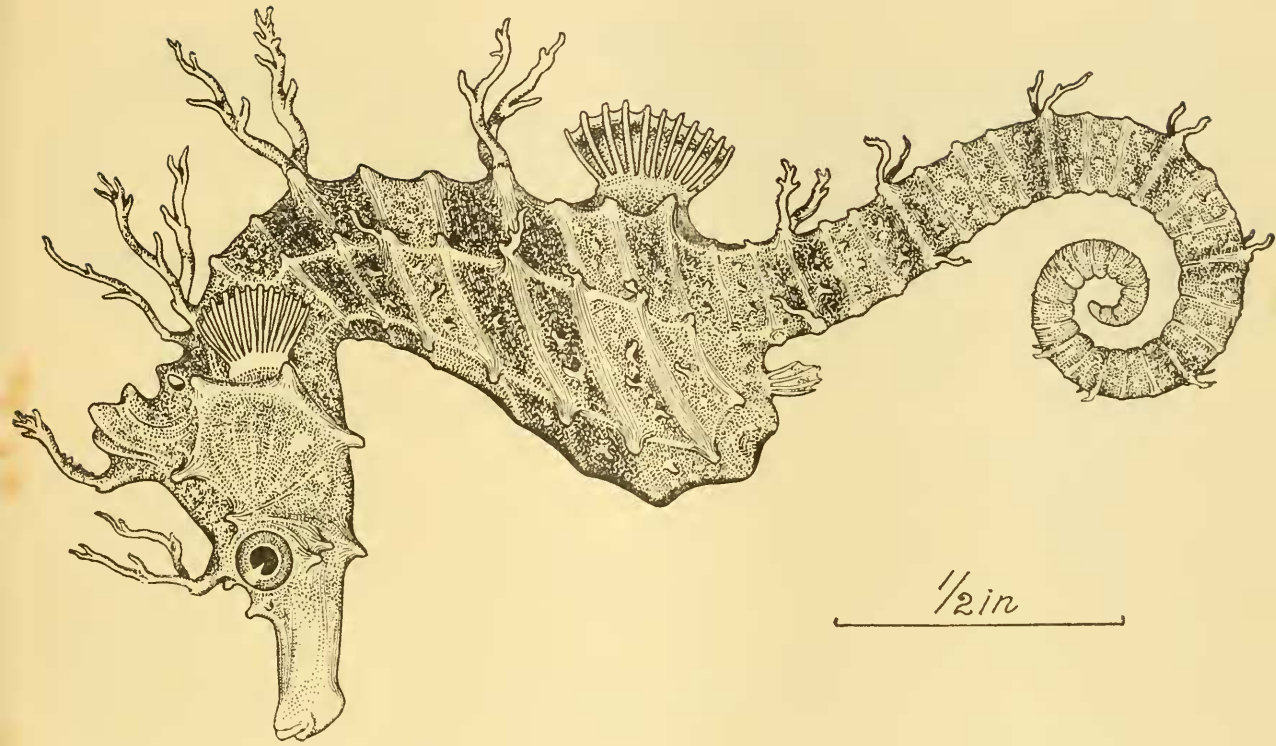


Fig. 74.

286. *Hippocampus histrix* Kaup.

Ibara-tatsu.

Hippocampus histrix Kaup, Lophobr., 1856, p. 17, pl. II, fig. 5. Japan.

Distrib.—East Indies ; Japan ; Zanzibar ; Isle of Reunion.

287. *Hippocampus japonicus* Kaup. (Fig. 75).

Kitano-umi-uma.

Hippocampus japonicus Kaup, Lophobr., 1856, p. 7. Nagasaki.

Distrib.—Hakodate to Wakanoura.

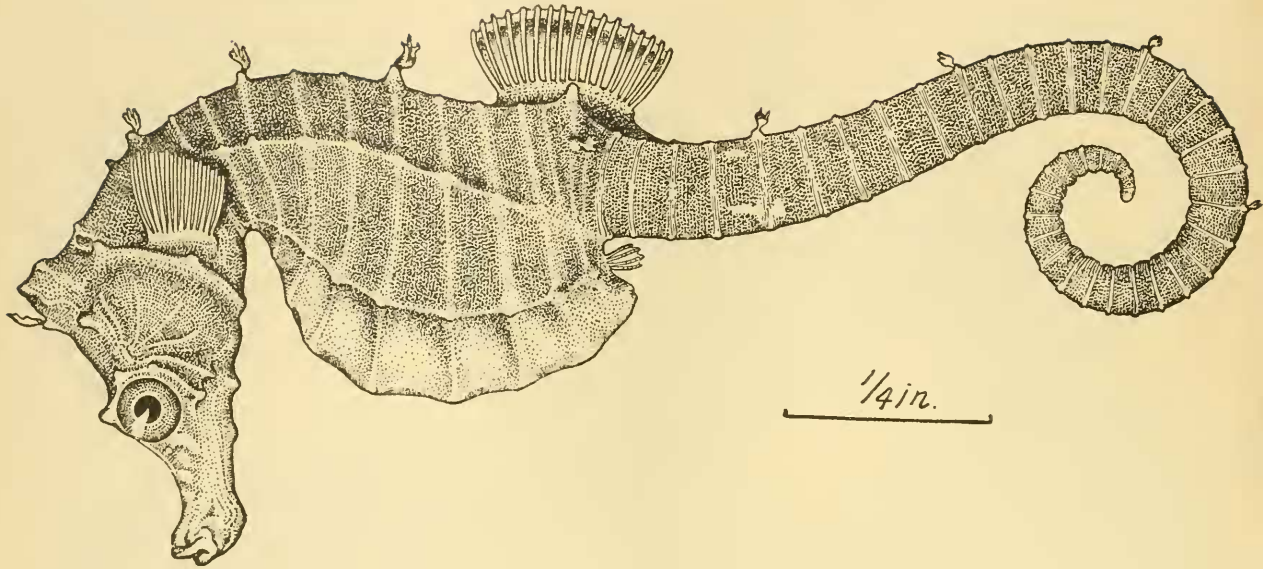


Fig. 75.

288. *Hippocampus coronatus* Temminck & Schlegel.

Tatsu-no-otoshigo.

Hippocampus coronatus Temminck & Schlegel, Fauna Japonica, Poiss., 1850,
p. 274, pl. CXX, fig. 8. Nagasaki.

Distrib.—Matsushima to Wakanoura.

289. *Hippocampus sindonis* Jordan & Snyder. (Fig. 76).

Enshū-tatsu.

Hippocampus sindonis Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901,
p. 17, pl. XI. Tōtōmi Bay.

Distrib.—Hamamatsu.

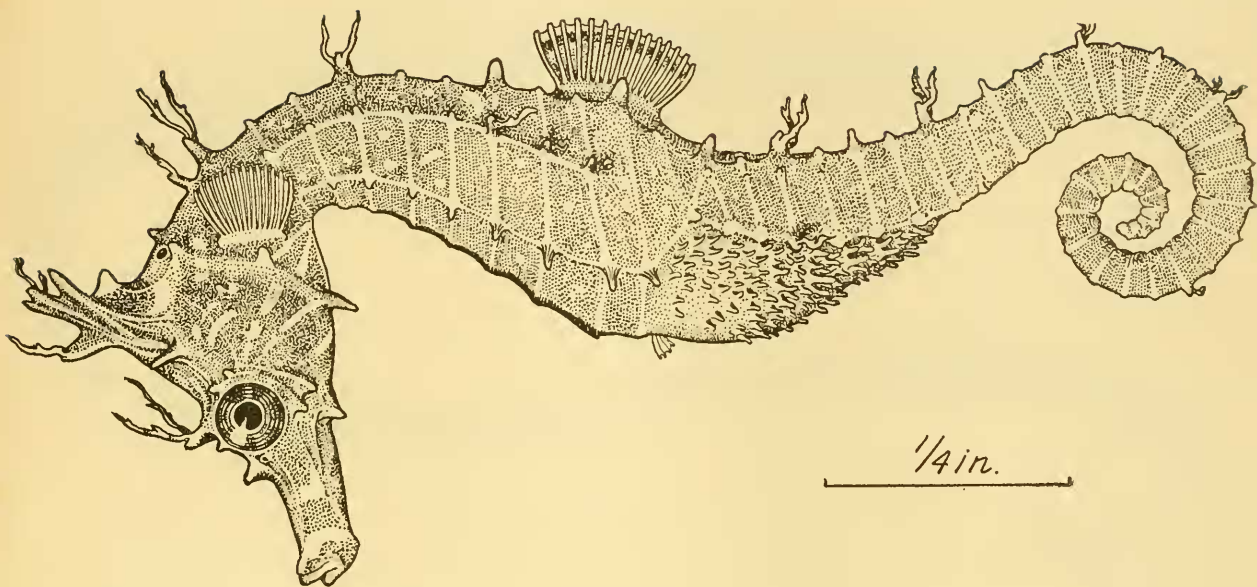


Fig. 76.

Genus *Urocampus* Günther.

Urocampus Günther, Cat, Fish, VIII, 1870, p. 179.

Type *Urocampus nanus* Günther.

290. *Urocampus rikuzenius* Jordan & Snyder. (Fig. 77).

Oku-no-tatsu.

Urocampus rikuzenius Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 10, pl. VII. Matsushima Bay (Perhaps not separable from *Urocampus nanus*).

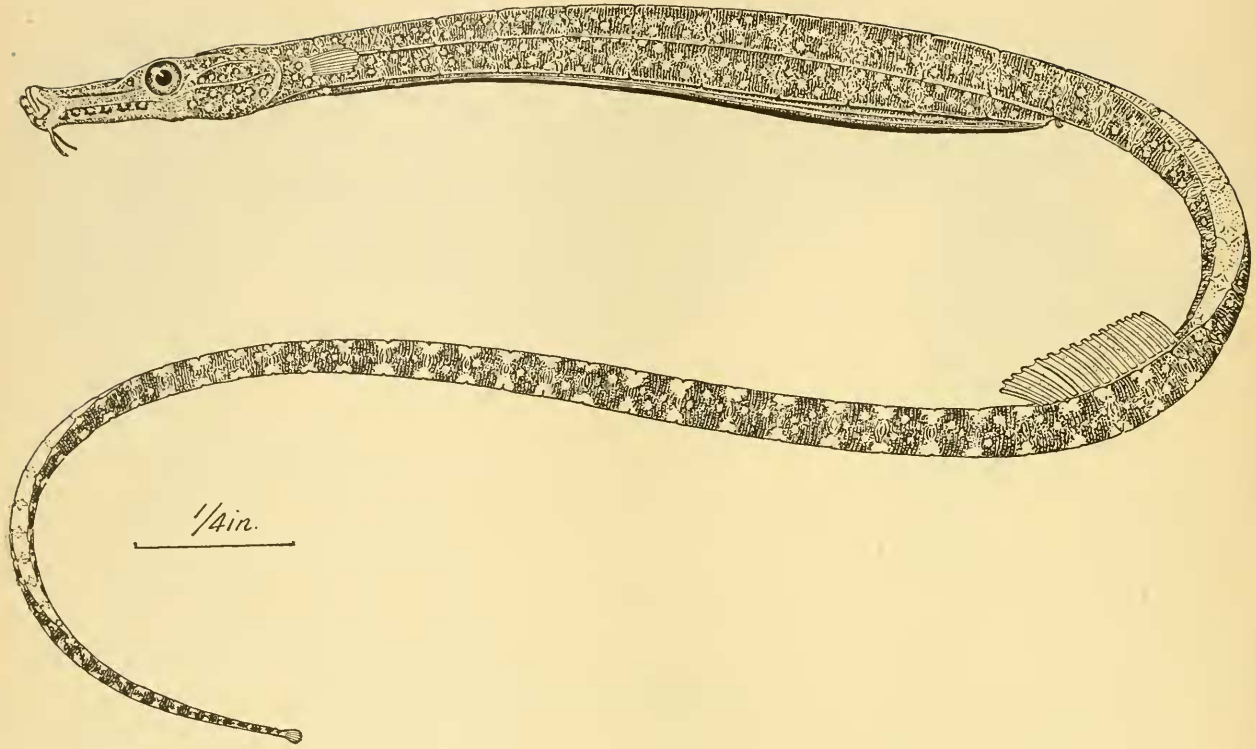


Fig. 77.

Order **HEMIBRANCHII.**Family **AULORHYNCHIDÆ.**Genus *Aulichthys* Brevoort.

‡ *Aulichthys* (Brevoort) Gill, Proc. Acad. Nat. Sci. Phila., 1862, p. 234.

Type *Aulichthys japonicus* Brevoort.

291. *Aulichthys japonicus* Brevoort.

Kuda-yagara.

Aulichthys japonicus (Brevoort) Gill, Proc. Acad. Nat. Sci. Phila., 1862, p. 234. Shimoda.

Distrib.—Tōkyō ; Matsushima ; Boshū. Hakodate (Snyder ms.).

Family **FISTULARIIDÆ.**Genus *Fistularia* Linnæus.

Fistularia Linnæus, Syst. Nat., 10th ed., 1758, p. 312.

Type *Fistularia tabacaria* Linnæus.

292. *Fistularia petimba* Lacépède.**Aka-yagara.**

Fistularia petimba Lacépède, Hist. Nat. Poiss., V, 1803, p. 349. New Britain; Isle of Reunion; equatorial Pacific.

Distrib.—Indian and Pacific Oceans; Japan.

293. *Fistularia serrata* Cuvier.**Ac-yagara.**

Fistularia serrata Cuvier, Règne Anim., 1st ed., II, 1817, p. 349. America. (After Bloch).

Distrib.—Hawaii; New Guinea; East Indies; Japan.

Family AULOSTOMIDÆ.**Genus *Aulostomus* Lacépède.**

Aulostomus Lacépède, Hist. Nat. Poiss., V, 1803, p. 357.

Type *Aulostomus chinensis* Lacépède.

294. *Aulostomus chinensis* Lacépède.**Hera-yagara.**

Aulostomus chinensis Lacépède, Hist. Nat. Poiss., V, 1803, p. 357. China
Polypterichthys valentini, Bleeker, Ternate II, 1853, p. 608. Ternate.

Distrib.—Hawaii to India; Japan.

Family MACRORHAMPHOSIDÆ.**Genus *Macrorhamphosus* Lacépède.**

Macrorhamphosus Lacépède, Hist. Nat. Poiss., V, 1803, p. 136.

Type *Silurus cornutus* Forskål = *Balistes scolopax* Linnæus.

295. *Macrorhamphosus sagifue* Jordan & Starks. (Fig. 78).**Sagifue (Misaki, Sagami).**

Macrorhamphosus sagifue Jordan & Starks, Proc. U. S. Nat. Mus., XXVI, 1902, p. 69, fig. 2. Enoura, Suruga.

Distrib.—Tōkyō to Nagasaki.

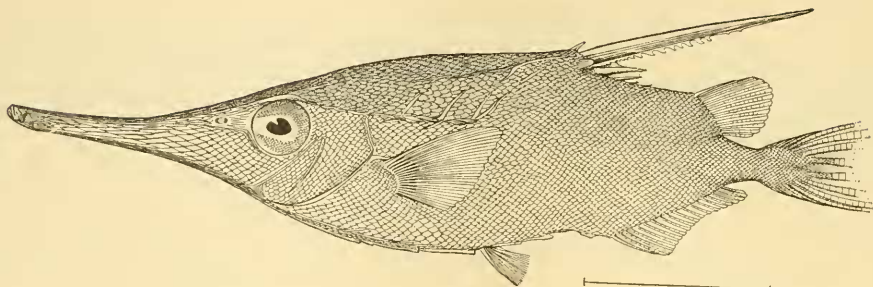


Fig. 78.

296. *Macrorhamphosus japonicus* Günther.

Daikoku-sagifue.

Centriscus japonicus Günther, Cat. Fish., III, 1861, p. 522. Japan ; China.

Distrib.—Tōkyō to Nagasaki.

Family GASTEROSTEIDÆ.**Genus Gasterosteus** (Artedi) Linnaeus.*Gasterosteus* Artedi, Genera, 1738, p. 52.*Gasterosteus* Linnaeus, Syst. Nat., 10th ed., 1758, p. 489.Type *Gasterosteus aculeatus* Linnaeus.297. *Gasterosteus cataphractus* (Pallas).

Itouwo, (Kanazawa, Kaga) Harinko (Zeze, Omi); Hariuwo (Prov. Mino); Taaji, Kawaaji, Kenzyakko, Haritate or Kengyo (Provs. Hōki and Idsumo).

Gasteracanthus cataphractus Pallas, Mem. Acad. Petersb., III, 1811, p. 325. Kamchatka.*Gasterosteus williamsoni japonicus* Franz, Abh. Bayer. Akad., 1910, p. 19, taf. III, fig. 10.

Distrib.—Europe ; North. America ; Greenland ; Saghalien ; Japan except Kiusiu, Shikoku and Sanyōdō.

Genus Pygosteus Brevoort.*Pygosteus* (Brevoort) Gill, Cat. Fish. East Coast North America, 1861, p. 39. Name only.*Pygosteus* Gill, Canadian Naturalist, II, 1865, p. 8.Type *Gasterosteus occidentalis* Cuvier & Valenciennes = *Gasterosteus pungitius* Linnaeus.

298. *Pygosteus sinensis* (Guichenot).

Tomiyo (Aomori); **Tobiuwo** (Hirosaki); **Kunimori** (Seiriuji R., Prov. Uzen); **Harisaba** (Kanazawa, Prov. Kaga); **Togebuna** (Kawagoe, Prov. Musashi).

Gasterosteus sinensis Guichenot, Nouv. Arch. Mus. Hist. Nat. Paris, V, 1869, p. 204, pl. XII, fig. 4. China, Yang-tse-Kiang.

Gasterosteus japonicus Steindachner, Sitzber. Ac. Wien, Mat-Nat., pl. LXXXII, 1880, p. 264, pl. III, fig. 2. Gulf of Strielok near Vladivostok. Not *Gasterosteus japonicus* Houttuyn = *Monocentris japonicus* (Houttuyn).

Pygosteus steindachneri Jordan & Snyder, Proc. U. S. Nat. Mus., XXVII, 1901, p. 747. After Steindachner.

Gasterosteus lussei Warpachowski, Fische, Fauna des Amur-Beckens, 1887, p. 13, 54, fig. 1. Lefu R., Amur basin.

Distrib.—China; Amur; Vladivostok; Gensan, Korea; Japan except Kiusiu, Shikoku and Sanyōdō.

299. *Pygosteus tymensis* (Nikolsky). (Fig. 79).

Ezo-harisaba.

Gasterosteus tymensis Nikolsky, Mem. Acad. Sci. Petersburg, LX, 1889, p. 293. Saghalien, Tymi River.

Pygosteus undecimalis Jordan & Starks, Proc. U. S. Nat. Mus., XXVI, 1902, p. 62, fig. Chitose in Hokkaidō.

Distrib.—Saghalien; Chitose, Hokkaidō.

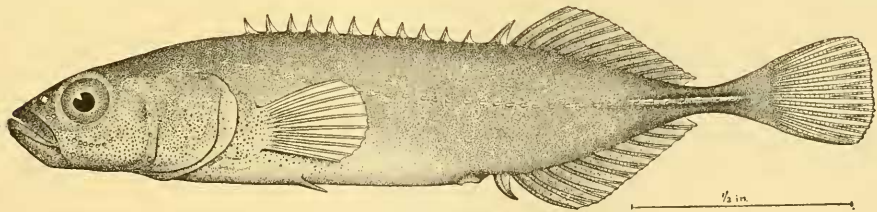


Fig. 79.

300. *Pygosteus pungitius* (Linnaeus).

Ira-tomiyo.

Gasterosteus pungitius Linnaeus, Syst. Nat., 10th ed., 1758, p. 296. Europe. After *Gasterosteus aculeis in dorso decem* Artedi.

Distrib.—Circumpolar; Hakodate.

301. *Pygosteus brevispinosus* Otaki.

Kita-no-tomiyo.

Pygosteus brevispinosus Otaki, Trans. Sapporo Nat. Hist. Soc., II, August 5,
1908, p. 87. Sapporo, Hokkaidō. (Doubtful species).

Distrib.—Sapporo, Hokkaidō.

Family CENTRISCIDÆ.**Genus *Æoliscus* Jordan & Starks.**

Æoliscus Jordan & Starks, Proc. U.S. Nat. Mus., XXVI, 1902, p. 71.

Type *Amphisile strigata* Günther.

302. *Æoliscus strigatus* (Günther).

Heko-ayu.

Amphisile strigata Günther, Cat. Fish., III, 1861, p. 28. Java.

Distrib.—East Indies ; Riukiu Islands ; off Prov. Tosa ; Sagami Sea.

Order SYNENTOGNATHI.**Family EXOCÆTIDÆ.****Genus *Exocætus* Linnaeus.**

Exocætus Linnaeus, Syst. Nat., 10th ed., 1758, p. 316.

Type *Exocætus volitans* Linnaeus.

303. *Exocætus evolans* Linnaeus.

Idaten-tobi.

Exocætus evolans Linnaeus, Syst. Nat., 12th ed., 1766, p. 521. In Oceano-
Hippanico (After Gronow).

Distrib.—Atlantic coast ; Yokohama (Franz).

Genus *Cypselurus* Swainson.

Cypselurus Swainson, Classification Fishes, etc., II, 1839, p. 296. (Misprint for
Cypselurus).

Type *Exocætus nutallii* Le Sueur.

304. *Cypselurus agoo* (Temminck & Schlegel). (Fig. 80).

Tobino-uwo (Tōkyō); Agu (Fukuoka).

Exocætus agoo Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 247.
Nagasaki. (From a drawing).

Exocætus döderleini Steindachner, Fische Japans, IV, 1887, p. 38.
Tōkyō.

Distrib.—Aomori to Nagasaki.

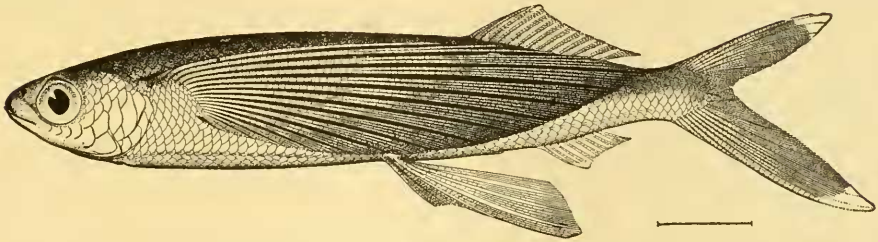


Fig. 8c.

305. *Cypselurus pæcilopterus* (Cuvier & Valenciennes).

Aya-tobinouwo.

Exocætus pæcilopterus Cuvier & Valenciennes, Hist. Nat. Poiss., XIX, p. 112,
pl. DCXI. New Britain.

Distrib.—New Britain; Hakodate.

306. *Cypselurus hirundo* (Steindachner).

Tsubame-tobinouwo.

Exocætus hirundo Steindachner, Ichthyol. Mittheil., VIII, 1866, p. 482, pl. IV.
fig. 2. Hongkong.

Distrib.—Wakanoura; Hongkong.

307. *Cypselurus brachycephalus* (Günther). (Fig. 81).

Mai-tobinouwo.

Exocætus brachycephalus Günther, Cat. Fish., VI, 1866, p. 297. China.

Distrib.—China; Misaki, Sagami.

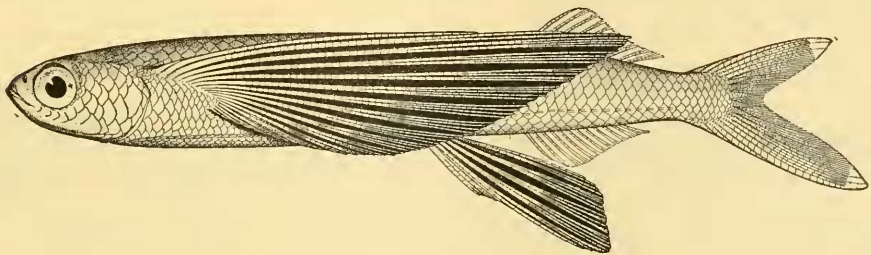


Fig. 81.

308. *Cypselurus solandri* (Cuvier & Valenciennes).

Seto-tobinouwo.

Exocoetus solandri Cuvier & Valenciennes, Hist. Nat. Poiss., XIX, 1846, p. 129. Indian Ocean.

Distrib.—Indian Ocean; Kōbe.

309. *Cypselurus japonicus* (Franz).

Hama-tobi.

Exocoetus lineatus japonicus Franz, Abh. Bayer. Akad., 1910, p. 24. Oyama, Sagami Bay.

Distrib.—Sagami Bay.

Family HEMIRHAMPHIDÆ.**Genus *Hyporhamphus* Gill.**

Hyporhamphus Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 131.

Type *Hyprohamphus tricuspidatus* Gill = *Hemirhamphus unifasciatus* Ranzani.

310. *Hyporhamphus sajori* (Temminck & Schlegel).

Sayori.

Hemirhamphus sajori Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 246, pl. CX, fig. 2. Nagasaki.

Hemirhamphus occipitalis Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 148. Shimoda, Idsu.

Distrib.—Aomori to Nagasaki.

311. *Hyporhamphus mioprurus* Jordan & Dickerson. (Fig. 82).

Sennin-sayori.

Hemirhamphus mioprurus Jordan & Dickerson, Proc. U. S. Nat. Mus., XXXIV, 1908, p. III, fig. Nagasaki.

Distrib.—Nagasaki.

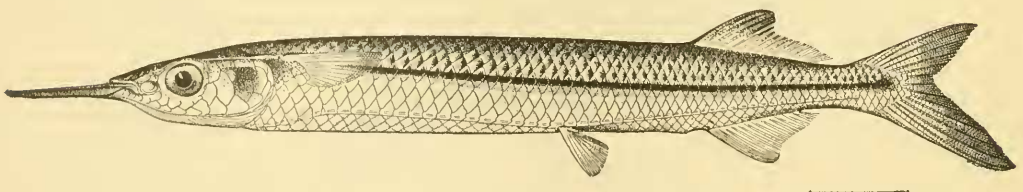


Fig. 82.

312. Hyporhamphus kurumeus Jordan & Starks. (Fig. 83).**Kurume-sayori.***Hyporhamphus kurumeus* Jordan & Starks, Proc. U. S. Nat. Mus., XXVI, 1903, p. 534, fig. 1. Chikugo River at Kurume.

Distrib.—Chikugo River.

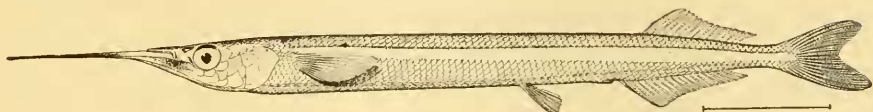


Fig. 83.

Genus Hemiramphus Cuvier.*Hemiramphus* Cuvier, Règne Animal, 1st ed., II, 1817, p. 186.Type *Esox brasiliensis* Linnaeus.**313. Hemiramphus japonicus** Brevoort.**Nanyō-sayori.***Hemiramphus japonicus* Brevoort, Perry's Exp. Japan, 1856, p. 280. Loo Choo (Riukiu). After a figure.

Distrib.—Riukiu; Idsu; Bonin Islands.

Genus Euleptorhamphus Gill.*Euleptorhamphus* Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 131.Type *Euleptorhamphus brevoorti* Gill = *Euleptorhamphus velox* Poey.**314. Euleptorhamphus longirostris** (Cuvier).**Tō-zayori.***Hemiramphus longirostris* Cuvier, Règne Anim., 2nd ed., II, 1829, p. 235. Pondicherry. (After Kuddera of Russell).*Hemiramphus elongatus* Tanaka, Fig. Descr. Fish. Japan, II, June 15, 1911, p. 22, pl. VI, fig. 21. Misaki, Sagami.

Distrib.—Hawaii; Japan; open Pacific; warm seas generally.

Family SCOMBRESOCIDÆ.**Genus Cololabis** Gill.*Cololabis* Gill, Proc. U. S. Nat. Mus., XVIII, 1895, p. 176.—Jordan & Evermann, Fishes N. and M. Amer., I, 1896, p. 726.Type *Scombrox brevirostris* Peters.

315. Cololabis saira (Brevoort).**Samma** (Tōkyō); **Saira** (Prov. Awaji); **Sayori** (Prov. Kii).*Scombresox saira* Brevoort, Perry's Exp. Japan, 1856, p. 281, pl. VII, fig. 4.

Based on a drawing.

Distrib.—Otaru to Nagasaki.

Family BELONIDÆ.**Genus Tylosurus** Cocco.*Tylosurus* Cocco, "Lettre in Giornale Sci. Sicilia, XVII," 1829, p. 18.Type *Tylosurus cantraini* Cocco = *Esox imperialis* Rafinesque.**316. Tylosurus anastomella** (Cuvier & Valenciennes).**Datsu.***Belone anastomella* Cuvier & Valenciennes, Hist. Nat. Poiss., XVIII, 1846, p. 446. China.

Distrib.—Yokohama to Hakodate; China.

317. Tylosurus schismatorhynchus (Bleeker).**Hama-datsu.***Belone schismatorhynchus* Bleeker, Nat. Tydschr. Ned. Ind., I, 1850, p. 95.

Distrib.—Mozambique; Zanzibar; Java; Ternate; Nagasaki; Wakanoura; Bōshū.

318. Tylosurus giganteus (Temminck & Schlegel).**Okizayori.***Belone gigantea* Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 245. Nagasaki.

Distrib.—East Indies; Nagasaki; Wakanoura; Yokohama; Tsuruga.

319. Tylosurus coromandelicus (Kuhl & Van Hasselt).**Tenjiku-datsu.***Belone coromandelicus* Kuhl & Van Hasselt, Alg. Konst., 1823, p. 130.

Coromandel, according to Bleeker.

Distrib.—East Indies; Yokohama; Tsuruga.

Order PERCESOCES.**Family SPHYRÆNIDÆ.****Genus Sphyræna** (Artedi) Bloch & Schneider.*Sphyræna* (Artedi) Bloch & Schneider, Syst. Ichth., 1801, p. 109.Type *Esox sphyræna* Linnæus.

Sphyræna jello Cuvier & Valenciennes.*Sphyræna jello* Cuvier & Valenciennes, III, 1829, p. 349. Vizagapatan.

Distrib.—Red Sea; Cape of Good Hope; Bay of Bengal; Seas of Pinang, Java, and Amboyna; Japan (Perhaps not Japanese).

320. Sphyræna japonica Cuvier & Valenciennes.

Yamato-kamasu.

Sphyræna japonica Cuvier & Valenciennes, Hist. Nat. Poiss., III, 1829, p. 354. Japan.

Distrib.—Sea of Japan.

321. Sphyræna nigripinnis Temminck & Schlegel.

Aokamasu (Nagasaki).

Sphyræna nigripinnis Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 34, pl. XIII, fig. 1. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

322. Sphyræna pinguis (Günther).

Akakamasu (Nagasaki).

Sphyræna pinguis Günther, Ann. Mag. Nat. Hist., 1874, p. 157. Chefoo.*Sphyræna schlegelii* Steindachner, Ann. Hofmus. Wien, XI, 1896, p. 209. Japan.

Distrib.—Tōkyō to Nagasaki; Chefoo.

Family ATHERINIDÆ.**Genus Atherina** (Artedi) Linnæus.*Atherina* (Artedi) Linnæus, Syst. Nat., 10th ed., 1758, p. 315.Type *Atherina hepsetus* Linnæus.**323. Atherina bleekeri** Günther.

Tōgoroiwashi (Misaki, Sagami).

Atherina bleekeri Günther, Cat. Fish., III, 1861, p. 398. China.

Distrib.—Tōkyō to Nagasaki; China.

324. Atherina morrisi Jordan & Starks. (Fig. 84).

Yaku-iso-iwashi.

Atherina morrisi Jordan & Starks, Proc. U. S. Nat. Mus., XXX, 1906, p. 697, fig. 3. Miyanoura, Yakushima.

Distrib.—Yakushima.

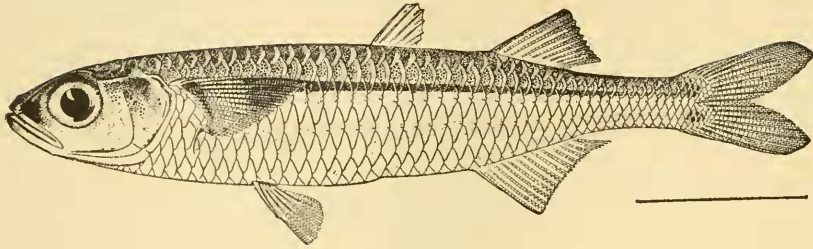


Fig. 84.

325. *Atherina tsurugæ* Jordan & Starks.

Gin-isoiwashi.

Atherina tsurugæ Jordan & Starks, Proc. U. S. Nat. Mus., XXIV, 1901, p. 202, fig. 2. Nagasaki.

Distrib.—Misaki, Sagami; Nagasaki.

Genus *Atherion* Jordan & Starks.

Atherion Jordan & Starks, Proc. U. S. Nat. Mus., XXIV, 1901, p. 203.

Type *Atherion elymus* Jordan & Starks.

326. *Atherion elymus* Jordan & Starks.

Mugi-iwashi.

Atherion elymus Jordan & Starks, Proc. U. S. Nat. Mus., XXIV, 1901, p. 203, fig. 3. Misaki, Sagami.

Distrib.—Misaki, Sagami.

Genus *Iso* Jordan & Starks.

Iso Jordan & Starks, Proc. U. S. Nat. Mus., XXIV, 1901, p. 204.

Type *Iso flos-maris* Jordan & Starks.

327. *Iso flos-maris* Jordan & Starks.

Namino-hana; Iso-iwashi.

Iso flos-maris Jordan & Starks, Proc. U. S. Nat. Mus., XXIV, 1901, p. 205, fig. 4. Prov. Sagami; Prov. Idsu.

Distrib.—Misaki, Sagami; Enoshima; Haneda; Jōgashima; Hachijō.

Family MUGILIDÆ.

Genus *Mugil* (Artedi) Linnæus.

Mugil (Artedi) Linnæus, Syst. Nat., 10th ed., 1758, p. 316

Type *Mugil cephalus* Linnæus.

328. *Mugil cephalus* Linnæus.

Bora.

Mugil cephalus Linnæus, Syst Nat., 10th ed., 1758, p. 316. Europe. (Based on Artedi).*Mugil japonicus* Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 134, pl. LXXII, fig. 1 (bad). Nagasaki.

Distrib.—Hawaii; Raiatea; Tahiti; New Guinea; Nukahiva; Solomon Is.; Mediterranean; Atlantic coasts of United States; Panama; southern California; Red Sea; Japan.

Genus *Liza* Jordan & Swain.*Liza* Jordan & Swain, Proc. U. S. Nat. Mus., VII, 1884, p. 261.Type *Mugil capito* Cuvier.**329. *Liza hæmatochila* (Temminck & Schlegel).**

Menada (Tōkyō); Sukuchi (Prov. Tosa); Akame-bora.

Mugil hæmatochilus Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 135, pl. LXXII, fig. 2. Nagasaki.

Distrib.—Coasts of Japan and China.

Genus *Querimana* Jordan & Gilbert.*Querimana* Jordan & Gilbert, Proc. U. S. Nat. Mus., V, 1882, p. 588.Type *Myxus harengus* Günther.**330. *Querimana crenilabis* (Forskål).**

Huurai-bora.

Mugil crenilabis Forskål, Descr. Anim., 1775, p. 73. Red Sea.

Distrib.—Tahiti; Tanna; Paumotu; Kingsmill; Ponape; New Ireland; Christmas I.; Red Sea; Japan.

Order ACANTHOPTERI.**Family BERYCIDÆ.****Genus *Beryx* Cuvier.***Beryx* Cuvier, Règne Anim., 2d ed., II, 1829, p. 151.Type *Beryx decadactylus* Cuvier & Valenciennes.

331. *Beryx decadactylus* Cuvier & Valenciennes.

Nanyō-kinmedai.

Beryx decadactylus Cuvier & Valenciennes, Hist. Nat. Poiss., III, 1829, p. 222. Madeira or Portugal.

Distrib.—Portugal; Madeira; Japan; Cuba.

332. *Beryx splendens* Lowe.

Kimmedai (Misaki, Sagami).

Beryx splendens Lowe, Proc. Zool. Soc. London, 1833, p. 142. Madeira.

Distrib.—Tōkyō; Yokohama; Madeira.

Family TRACHICHTHYIDÆ.

Genus *Hoplostethus* Cuvier & Valenciennes.*Hoplostethus* Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 469.Type *Hoplostethus mediterraneus* Cuvier & Valenciennes.333. *Hoplostethus mediterraneus* Cuvier & Valenciennes.

Hiuchi-dai.

Hoplostethus mediterraneus Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 469. Mediterranean Sea.*Hoplostethus japonicus* Hilgendorf, Sitz. Ges. Naturforschende Freunde, Berlin, 1879, p. 78. Japan.

Distrib.—Coasts of Japan; Mediterranean; Madeira.

Genus *Gephyroberyx* Boulenger.*Gephyroberyx* Boulenger, Ann. Mag. Nat. Hist., March, 1902, p. 203.Type *Trachichthys darwinii* Johnson.334. *Gephyroberyx japonicus* (Döderlein).

Hashi-kinme.

Trachichthys japonicus Döderlein, Fische Japans, I, 1883, p. 10. Tōkyō.

Distrib.—Suruga Bay; Tōkyō.

Genus *Paratrachichthys* Waite.*Paratrachichthys* Waite, Scient. Results, H. M. C. S. Thetis, 1899, p. 46.Type *Trachichthys trailli* Hutton.

335. *Paratrachichthys prosthemi* Jordan & Fowler. (Fig. 85).

Haridashi-ebisu.

Paratrachichthys prosthemi Jordan & Fowler, Proc. U.S. Nat. Mus., XXVI, 1902, p. 9, fig. 1. Suruga Bay.

Distrib.—Suruga Bay.

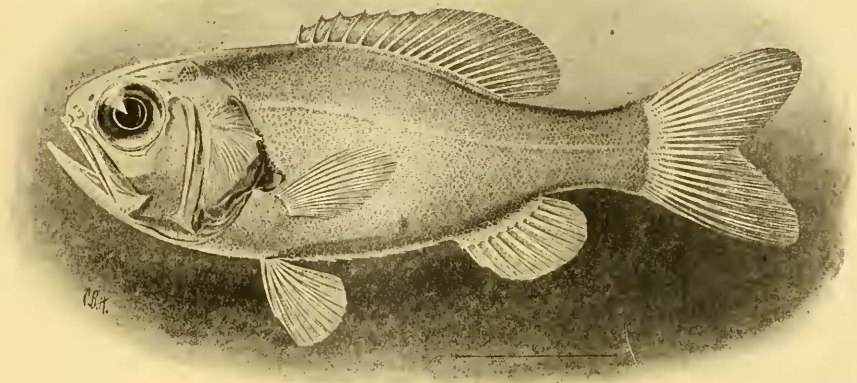


Fig. 85.

Family HOLOCENTRIDÆ.

Genus *Holocentrus* (Artedi) Scopoli.

Holocentrum Artedi, Seba, III, about 1738 (*Sciæna rubra* Forskål).

Holocentrus Gronow, Zoophyl, 1763, p. 65 (*Holocentrus rostratus* Gronow).

Holocenthrus (Gronow) Scopoli, Int. Hist. Nat., 1777, p. 449 (misprinted).

Type *Holocentrus rostratus* Gronow.

336. *Holocentrus spinosissimus* Temminck & Schlegel.

Ittōdai.

Holocentrus spinosissimus Temminck & Schlegel, Fauna Japonica, Poiss., 1847, p. 22, pl. VIII, A. Nagasaki.

Distrib.—Wakanoura ; Misaki, Sagami.

337. *Holocentrus ruber* (Forskål).

Ayame-ebisu.

Sciæna ruber Forskål, Descr. Animal, 1775, p. 48.

Holocentrus alborubrum Lacépède, Hist. Nat. Poiss., IV, 1803, p. 372. China Seas. From a Japanese print.

Distrib.—Kagoshima ; Nafa, Okinawa ; Amboina ; Louisiades ; Philippines ; China ; India ; Red Sea.

338. *Holocentrus sammara* (Forskål).

Tane-ebisu.

Sciæna sammara Forskål, Descr. Animal, 1775, p. 48.

Distrib.—Hawai ; Tahiti ; Samoa ; Borabora ; Paumotu Is. ; Solomon Is. ; Guam ; New Guinea ; Thornton I. ; Marquesas Is. ; East Indies ; Tane-gashima, Satsuma.

339. *Holocentrus ittodai* Jordan & Fowler.

Teri-ebisu.

Holocentrus ittodai Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1902, p. 16, fig. 4. Okinawa, Riukiu.

Distrib.—Nafa, Okinawa ; Kagoshima.

Genus *Ostichthys* Langsdorf.

Ostichthys (Langsdorf Ms.) Cuvier & Valenciennes, Hist. Nat. Poiss., III, 1829, p. 174 (*Myripristis japonicus* Cuvier & Valenciennes). Name only.

Ostichthys Jordan & Evermann, Fishes N. and M. America, I, 1896, p. 846.

Type *Myripristis japonicus* Cuvier & Valenciennes.

340. *Ostichthys japonicus* (Cuvier & Valenciennes). (Fig. 86).

Ebisudai (Misaki, Sagami) ; Kagekiyo (Tōkyō) ; Kindai ; Nishikidai ; Umikingyo.

Myripristis japonicus Cuvier & Valenciennes, Hist. Nat. Poiss., III, 1829, p. 173, pl. LVIII. Japan. Coll. Langsdorf.

Distrib.—Tōkyō to Nagasaki ; Formosa.

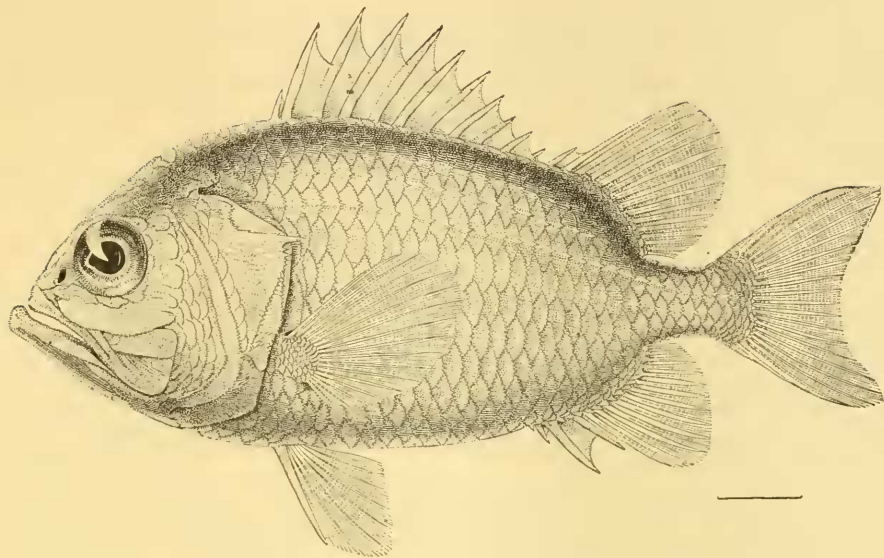


Fig. 86.

Genus *Myripristis* Cuvier.

Myripristis Cuvier, Règne Anim., 2d ed., II, 1829, p. 150.

Type *Myripristis jacobus* Cuvier & Valenciennes.

341. *Myripristis murdjan* (Forakål).

Aka-matsukasa (Nagasaki).

Sciæna murdjan Forskål, Descr. Anim., 1775, p. 48. Djida, Red Sea.

Distrib.—Nagasaki to Kagoshima; Formosa; Hawaii; Samoa; Harvey Is.; Tahiti; Fiji; Paumotu Is.; Guam; Laysan; New Hebrides; Ra'atea; Rarotonga; East Indies.

342. *Myripristis macrolepis* Bleeker.

Aka-yoroi. *

Myripristis macrolepis Bleeker, Atl. Ichth., IX, pl. CCCLIX, fig. 3.

Distrib.—Tanegashima (Snyder ms.).

Family POLYMIXIIDÆ.

Genus *Polymixia* Lowe.

Polymixia Lowe, Trans. Cambr. Phil. Soc., 1838, p. 198.

Type *Polymixia nobilis* Lowe.

343. Polymixia japonica Steindachner.

Ginme ; Agonashi (Tōkyō).

Polymixia japonica Steindachner, Fische Japans, I, 1883, p. 12, pl. IV, fig.

2. Tōkyō.

Distrib.—Misaki, Sagami.

Order BERYCOMORPHI.**Family MONOCENTRIDÆ.****Genus Monocentris** Schneider.*Monocentris* Schneider, Syst. Ichth., 1801, p. 100.Type *Monocentris carinata* Schneider = *Gasterosteus japonicus* Houttuyn.**344. Monocentris japonicus** (Houttuyn).

Matsukasauwo (Tōkyō) ; Umi-suzume (Tōkyō) ; Matsukasago ; Tai-muko-no-genpachi.

Gasterosteus japonicus Houttuyn, Act. Soc. Harl., XX., 1782, p. 329, pl. II.

Nagasaki.

Distrib.—Tōkyō to Nagasaki ; Philippines.

Order PERCOMORPHI.**Family SCOMBRIDÆ.****Genus Scomber** Linnæus.*Scomber* Linnæus, Syst. Nat., 10th ed., 1758, p. 297.Type *Scomber scombrus* Linnæus.**345. Scomber japonicus** Houttuyn.

Saba ; Kōgaisaba (Tōkyō) ; Marusaba ; Hirasaba.

Scomber japonicus Houttuyn, Verhand. Holl. Maatsch. Haarl., XX, 1782, p. 331. Japan.*Scomber auratus* Houttuyn, l. c., p. 333. Japan.*Scomber pycnatophorus major* Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 94, pl. XLVII, fig. 1. Nagasaki.*Scomber pycnatophorus minor* Temminck & Schlegel, l. c., p. 94, pl. XLVII, fig. 2. Nagasaki.*Scomber saba* Bleeker, Nat. Tijds. Ned., VI, 1854, p. 405. Nagasaki.*Scomber jancsaba* Bleeker, l. c., p. 406. Nagasaki.

Scomber tapeinoccephalus Bleeker, l.c., p. 407. Nagasaki.

Distrib.—Hawaii; California; Atlantic; Philippine Islands; Japan.

Genus *Auxis* Cuvier.

Auxis Cuvier, Règne Animal, 2nd ed., II, 1829, p. 199.

Type *Scomber rochei* Risso = *Scomber thazard* Lacépède.

346. *Auxis thazard* (Lacépède). (Fig. 87).

Sōda-gatsuwo.

Scomber thazard Lacépède, Hist. Nat. Poiss., III, 1801, p. 9. Between 6 and 7 S. lat., on coast of New Guinea.

Auxis tapeinosoma Bleeker, Fauna Japan, in Nat. Tijds. Ned. Ind., VI, 1854, p. 408. Nagasaki.

Distrib.—Hawaii; New Guinea; Japan.

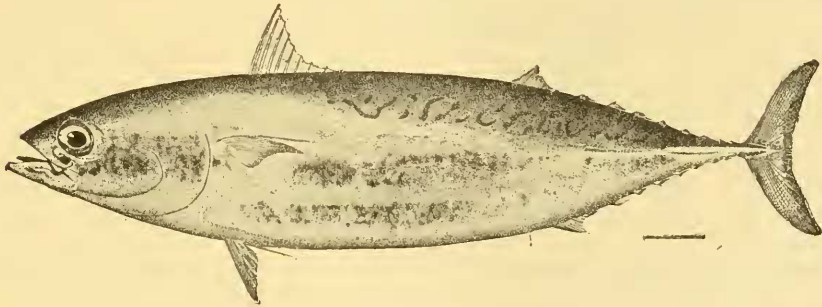


Fig. 87.

Genus *Euthynnus* Lütken.

Euthynnus Lütken in Jordan & Gilbert, Syn. Fish. N. Am., 1883, p. 429.

Type *Thynnus thunnina* Cuvier & Valenciennes = *Scomber alletteratus* Rafinesque.

347. *Euthynnus vagans* (Lesson).

Katsuwo.

?*Scomber pelamis* Linnaeus, Syst. Nat., 10th ed., 1758, p. 297. "In pelagico inter Tropicos."

Thynnus vagans Lesson, Voy. Coq, Zool., II, 1831, p. 162, pl. XXXII.

Thynnus affinis Cantor, Cat. Malay. Fish., 1850, p. 106. Sea of Pinang.

(Perhaps distinct from *Euthynnus pelamis* of the Atlantic).

Distrib.—Hawaii; Philippine Is.; Japan.

348. *Euthynnus alleteratus* (Rafinesque). (Fig. 88).**Mebachi ; Suma.***Scomber alletteratus* Rafinesque, Caratteri, 1810, p. 46. Palermo.*Thynnus sibi* Temminck & Schlegel, Fauna Japonica, Poissons, 1844, p. 97, pl. L. Nagasaki.*Orcynus schlegelii* Steindachner, Fische Japans, 1885, p. 178, taf. III, fig. I. Tōkyō.

Distrib.—Hawaii ; Philippine Islands ; Japan.

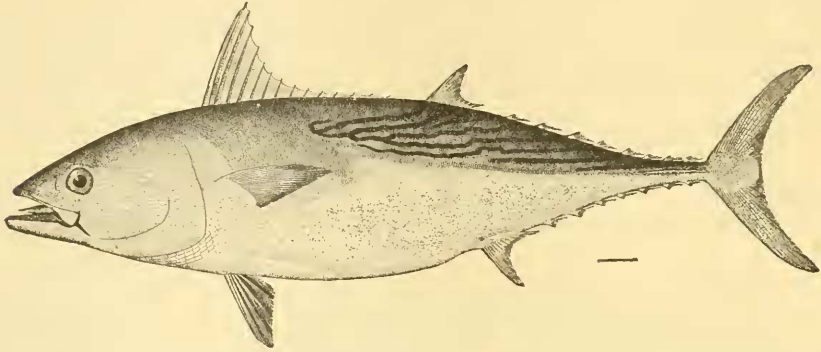


Fig. 88.

Genus *Thunnus* South.*Thynnus* Cuvier, Règne Animal, 1st ed., 1817, p. 313 (*Scomber thynnus* Linnaeus ; not of Fabricius, 1775, a genus of Butterflies).*Thunnus* South, Encyclop. Metropol., V, 1845, p. 620 (*Scomber thynnus* Linnaeus).*Orcynus* Cuvier, Règne Animal, 1st ed., 1817, p. 314 (*Scomber alalunga* Gmelin ; not *Orcynus* of Rafinesque, Analyse de la Nature, 1815, which is equivalent to *Scomberoides*).*Germo* Jordan, Proc. Ac. Nat. Sci. Phila., 1888, p. 180 (*Scomber alalunga* Gmelin).Type *Scomber thynnus* Linnaeus.**349. *Thunnus alalunga* (Gmelin).****Binnaga.***Ala-lunga* Cetti, Hist. Nat. Sard., III, 1777, p. 191. Sardinia.*Scomber alatunga* Gmelin, Syst. Nat., 1788, p. 1330. Sardinia. (Based on Cetti; misprint for "*alalunga*").

Distrib.—Atlantic and Pacific Oceans ; Indian Ocean ; Japan.

350. *Thunnus macropterus* (Temminck & Schlegel).**Kiwada.***Thunnus macropterus* Temminck & Schlegel, Fauna Japonica, Poissons, 1844, p. 98, pl. LI. Japan.

Distrib.—Japan ; Hawaii ; southern California, known by its yellow finlets.

351. *Thunnus thynnus* (Linnæus).**Maguro ; Sibi ; Hatsu (Prov. Tosa).***Scomber thynnus* Linnæus, Syst. Nat., 10th ed., 1758, p. 297. Europe (Based on *Scomber pinnulis* 8 seu 9 of Artedi).*Thynnus orientalis* Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 94. Nagasaki.

Distrib.—Europe ; Atlantic and Pacific coasts of North America ; Japan.

Genus *Sarda* Cuvier.*Sarda* Cuvier, Règne Animal, 2d ed., II, 1829, p. 199.Type *Scomber pelamys* Brünnich (not of Linnæus) = *Scomber sarda* Bloch.**352. *Sarda chilensis* (Cuvier & Valenciennes).****Sujigatsuo, Hagatsuo.***Pelamys chilensis* Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 1831, p. 163. Valparaiso.*Pelamys orientalis* Temminck & Schlegel, Fauna Japonica, Poissons, 1844, p. 99, pl. LII. Nagasaki.

Distrib.—San Francisco to Patagonia and Japan.

Genus *Scomberomorus* Lacépède.*Scomberomorus* Lacépède, Hist. Nat. Poiss., III, 1802, p. 292.Type *Scomberomorus plumieri* Lacépède = *Scomber regalis* Bloch.**353. *Scomberomorus niphonius* Cuvier & Valenciennes.****Sawara (Tōkyō) ; Sagoshi (Prov. Tosa).***Cybium niphonium* Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 1831, p. 180. Japan.

Distrib.—Japan.

354. Scomberomorus chinensis Cuvier & Valenciennes.

Ushisawara (Prov. Nagato); **Inusawara** (Nagasaki); **Hoteisawara** (Prov. Ugo);
Hasawara (Prov. Sagami); **Okisawara** (Kiusiu).

Cybius chinense Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 1831, p. 180.
 China.

Distrib.—Chinese and Japanese seas.

Genus Acanthocybium Gill.

Acanthocybium Gill, Proc. Ac. Nat. Sci. Phila., 1862, p. 125.

Type *Cybius sara* Lay & Bennett.

355. Acanthocybium sara (Lay & Bennett).

Kamasusawara; **Ōkamasu** (Nagasaki).

Cybius sara Lay & Bennett, Beechey's Voyage, Zool., 1846, p. 63, pl. XX,
 fig. 2, Loo Choo.

Distrib.—Japan, south to Riukiu.

Family RUETTIDÆ.**Genus Gempylus** Cuvier & Valenciennes.

Gempylus Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 1831, p. 207.

Lemnisoma Lesson, Voyage Coquille, Poissons, 1831, p. 160 (*Lemnisoma*
thyrsitoides Lesson).

Type *Gempylus serpens* Cuvier & Valenciennes.

356. Gempylus serpens Cuvier & Valenciennes.

Kurotachikamasu.

Gempylus serpens Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 1831, p. 207.
 Antilles.

Lemnisoma thyrsitoides Lesson, Voyage Coquille, II, 1831, p. 160. South
 Pacific, near Paumotu Islands, Lat. 17° S., Long. 108° E.

Distrib.—Hawaii; Tahiti; West Indies; Japan.

Genus Prometheichthys Gill.

Promethcus Quoy & Gaimard, Ms.

Promethcus Lowe, Trans. Zool. Soc. London, II, 1841, p. 181 (*Promethcus*
atlanticus Lowe = *Gempylus promethcus* Cuvier & Valenciennes. The
 generic name *Promethcus* preoccupied).

Prometheichthys Gill, Mem. Nat. Ac. Sci., VI, 1893, pp. 115, 123. (Substitute for *Prometheus* of Lowe).

Type *Prometheus atlanticus* Lowe = *Gempylus prometheus* Cuvier & Valenciennes.

357. *Prometheichthys prometheus* (Cuvier & Valenciennes).

Kurosibi-kamasu.

Gempylus prometheus Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 1831, p. 213, pl. 222. St. Helena.

Distrib.—Hawaii ; Tahiti ; Australia ; Japan.

Genus *Ruvettus* Cocco.

Ruvettus Cocco, Giorn. Sci. Sicilia., XLII, 1829, p. 21.

Type *Ruvettus pretiosus* Cocco.

358. *Ruvettus pretiosus* Cocco.

Tama-kamasu.

Ruvettus pretiosus Cocco, Giornale di Scienze per la Sicilia, XLII, 1829, p. 21. Messina.

Distrib.—Hawaii ; Japan ; West Indies.

Genus *Nealotus* Johnson.

Nealotus Johnson, Proc. Zool. Soc. Lond., 1865, p. 434.

Type *Nealotus tripes* Johnson.

359. *Nealotus tripes* Johnson. (Fig. 89).

Fuurai-kamasu.

Nealotus tripes Johnson, Proc. Zool. Soc. Lond., 1865, p. 434. Madeira.

Distrib.—Madeira ; The Challenger Station No. 40 (34° 51' N, 68° 30' W.) ; Hamashima, Japan.

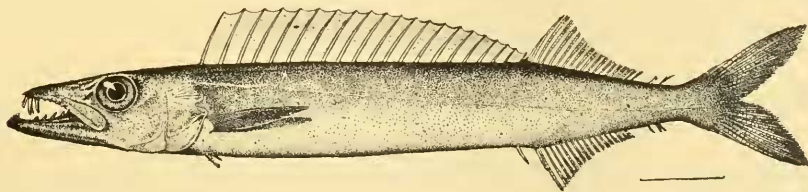


Fig. 89.

Genus *Jordanidia* Snyder.

Jordanidia Snyder, Proc. U. S. Nat. Mus., XL, 1911, p. 527.

Type *Jordanidia raptatoria* Snyder.

360. *Jordanidia raptatoria* Snyder.

Kagc-kamasu.

Jordanidia raptatoria Snyder, Proc. U. S. Nat. Mus., XL, 1911, p. 527.

Kagoshima.

Distrib.—Kagoshima.

Family LEPIDOPIDÆ.**Genus *Lepidopus* Gouan.**

Lepidopus Gouan, Hist. Nat. Poiss., 1770, p. 185.

Type *Lepidopus gouani* Bloch & Schneider = *Trichiurus caudatus*
Euphrasen.

361. *Lepidopus tenuis* Günther.

Tachimodoki.

Lepidopus tenuis Günther, Ann. Mag. Nat. Hist., 1877, XX, p. 437,
Enoshima; Challenger Report, Deep Sea Fishes, 1887, p. 37, pl. VII, fig.

B. Same specimen.

Distrib.—Sagami Sea.

362. *Lepidopus aomori* Jordan & Snyder.

Shiro-tachimodoki.

Lepidopus aomori Jordan & Snyder, Journ. Coll. Sci. Imp. Univ. Tokyo,
XV, pt. II, May 20, 1901, p. 303. Bay of Aomori.

Distrib.—Aomori.

Family TRICHIURIDÆ.**Genus *Trichiurus* Linnæus.**

Trichiurus Linnæus, Syst. Nat., 10th ed., 1758, p. 246.

Type *Trichiurus lepturus* Linnæus.

363. *Trichiurus japonicus* (Temminck & Schlegel).

Tachinouwo (Tōkyō); Tachiuwo (Prov. Tosa).

Trichiurus lepturus japonicus, Fauna Japon., Poiss., 1844, p. 102, pl. LIV.

Distrib.—Japanese coasts.

364. *Trichiurus haumela* (Forskål).

Tenjikutachi.

Clupea haumela Forskål, 1775, p. 72. Mochhae.

Distrib.—Indian Ocean and Archipelago; Manila; San Fabian; Cavite; Japan.

Family ISTIOPHORIDÆ.**Genus *Istiophorus* Lacépède.***Istiophorus* Lacépède, Hist. Nat. Poiss., III, 1802, p. 374.Type *Istiophorus gladiifer* Lacépède = *Scomber gladius* Broussonet.**365. *Istiophorus orientalis* (Temminck & Schlegel).**

Bashōkajiki.

Istiophorus orientalis Temminck & Schlegel, Fauna Japonica, Poiss., 1844,
p. 103, pl. LV. Nagasaki.

Distrib.—Coasts of Japan.

Genus *Tetrapturus* Rafinesque.*Tetrapturus* Rafinesque, Indice d'Ittiol. Sicil., 1810, p. 30.Type *Tetrapturus belone* Rafinesque.**366. *Tetrapturus mazara* Jordan & Snyder.**

Kurokajiki or Mazaara (Misaki, Sagami); Shirokajiki, Shiroka or Kuroka (Tōkyō).

Tetrapturus mazara Jordan & Snyder, Journ. Coll. Sci. Imp. Univ. Tokyo,
XV, pl. II, May 20, 1901, p. 305. Misaki, Sagami. (Perhaps not distinct
from *Tetrapturus mitsukurii*).**367. *Tetrapturus mitsukurii* Jordan & Snyder.**

Makajiki (Misaki, Prov. Sagami); Baisen; Kajiki-maguro; Nairage (Tosa); Rakuda.

Tetrapturus mitsukurii Jordan & Snyder, Journ. Coll. Sci. Imp. Univ. Tokyo,
XV, pt. II, May 20, 1901, p. 303, pl. XVI, fig. 5. Misaki, Sagami.

Distrib.—Sagami Sea; Otaru; southern California.

Family XIPHIIDÆ.**Genus *Xiphias* Linnaeus.***Xiphias* Linnaeus, Syst. Nat., 10th ed., 1758, p. 248.Type *Xiphias gladius* Linnaeus.

368. *Xiphias gladius* Linnæus.**Mekajiki ; Mezaara ; Okizaara** (Odawara).*Xiphias gladius* Linnæus, Syst. Nat., 10th ed., 1758, p. 248. Europe. After *Xiphias*, of Artedi.

Distrib.—Atlantic Ocean on both coasts ; Hawaii ; Japan ; California.

Family CARANGIDÆ.**Genus *Scomberoides* Lacépède.***Scomberoides* Lacépède, Hist. Nat. Poiss., III, 1801, p. 192.Type *Coryphæna scomberoides* Lacépède.**369. *Scomberoides orientalis* (Temminck & Schlegel).****Ikekatsuo.***Chorinemus orientalis* Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 106, pl. LVII, fig. 1. Nagasaki.

Distrib.—Coasts of Japan.

Genus *Naucrates* Rafinesque.*Centronotus* Lacépède, Hist. Nat. Poiss., III, 1802, p. 311 (*Centronotus conductor* Lacépède ; not *Centronotus* of Bloch & Schneider, 1801, which is *Pholis*).*Naucrates* Rafinesque, Caratteri di Alcuni Nuovi Generi, etc., 1810, p. 44.Type *Centronotus conductor* Lacépède.**370. *Naucrates ductor* (Linnæus).****Burimodoki.***Gasterosteus ductor* Linnæus, Syst. Nat., 10th ed., 1758, p. 295. "In Pelago".

Distrib.—A pelagic fish found in all warm seas.

Genus *Seriola* Cuvier.*Seriola* Cuvier, Règne Animal, 2d ed., II, 1829, p. 218.Type *Caranx dumerili* Risso.**371. *Seriola aureovittata* Temminck & Schlegel. (Fig. 90).****Buri ; Warasa ; Hiradsu ; Inada.***Seriola aureo-vittata* Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 115, pl. LXII, fig. 1. Nagasaki.

Seriola quinqueradiata Temminck & Schlegel, l. c., p. 115, pl. LXII, fig. 2.
Nagasaki.

Seriola cristata Döderlein, Fische Japans, III, 1884, p. 186. Tōkyō.
Distrib.—Coasts of Japan and southward.

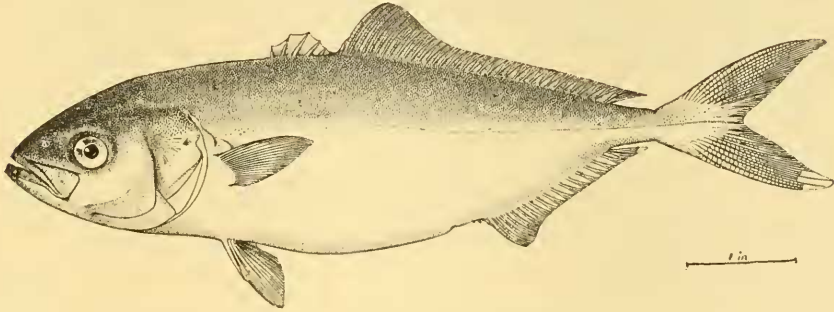


Fig. 90.

372. *Seriola purpurascens* Temminck & Schlegel.

Hiramasa; Kanpachi; Shiwo; Akaburi.

Seriola purpurascens Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p.
113, pl. LXI. Nagasaki.

Distrib.—Coasts of Japan.

373. *Seriola intermedia* Temminck & Schlegel.

Ai-buri.

Seriola intermedia Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p.
116. Nagasaki.

Distrib.—Coasts of Japan.

Genus *Elagatis* Bennett.

Elagatis Bennett, Narrative of a whaling voyage, II, 1835, p. 283.

Type *Seriola bipinnulata* Quoy & Gaimard.

374. *Elagatis bipinnulatus* (Quoy & Gaimard).

Tsumu-buri.

Seriola bipinnulata Quoy & Gaimard, Voy. Uranie, Zool., I, 1824, p. 363,
pl. 61, fig. 3. Keeling Islands.

Distrib.—Tropical seas.

Genus *Decapterus* Bleeker.

Decapterus Bleeker, Naturk. Tydschr., V, 1855, p. 417.

Type *Caranx kurra* Cuvier & Valenciennes.

375. *Decapterus maruadsi* (Temminck & Schlegel).**Maruaji ; Aoaji (Kōchi).***Caranx russellii* Rüppell, Atlas Fisch., 1828, p. 99. Red Sea.*Caranx maruadsi* Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 109, pl. LVIII, fig. 2. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

376. *Decapterus muroadsi* (Temminck & Schlegel).**Muroaji.***Caranx muroadsi* Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 108, pl. LVIII, fig. 1. Nagasaki.

Distrib.—Seas of Japan.

377. *Decapterus macrosomus* Bleeker.**Naga-aji.***Decapterus macrosoma* Bleeker, Naturk. Tydschr. Nederl. Ind., I, 1851, p. 358. Sea of Batavia.

Distrib.—Kagoshima ; East Indies.

Genus *Trachurus* Rafinesque.*Trachurus* Rafinesque, Indice d' Ittiologia, Siciliana, 1810, p. 20.Type *Scomber trachurus* Linnæus.**378. *Trachurus japonicus* (Temminck & Schlegel).****Ma-aji.***Caranx trachurus japonicus* Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 109, pl. LIX, fig. 1. Nagasaki.

Distrib.—Seas of Japan.

Genus *Trachurops* Gill.*Trachurops* Gill, Proc. Ac. Nat. Sci. Phila., 1862, p. 431.Type *Scomber crumenophthalmus* Bloch.**379. *Trachurops crumenophthalma* (Bloch). (Fig. 91).****Me-aj.***Scomber crumenophthalmus* Bloch, Ichthyol., 1793, pl. 343. Acara in Guinea.

Distrib.—Both coasts of tropical America ; West Indies ; Samoa ; Hawaii ; Tahiti ; Solomon Is. ; New Hebrides ; Marquesas Is. ; Rarotonga ; Japan.

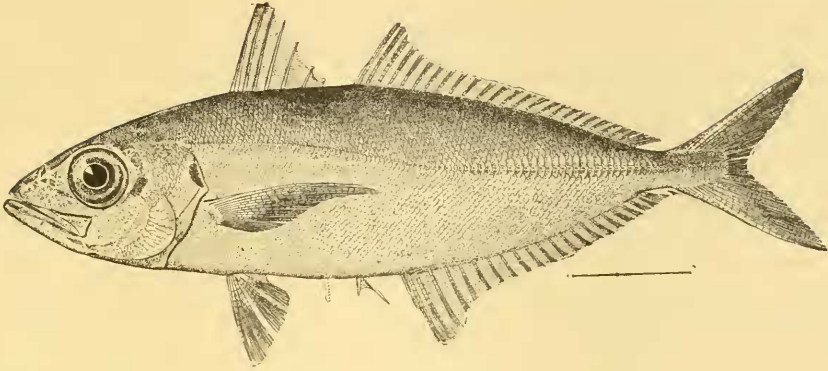


Fig. 91.

Genus *Caranx* Lacépède.**Caranx* (Commerson) Lacépède, Hist. Nat. Poiss., III, 1802, p. 57.Type *Scomber ruber* Bloch.380. *Caranx equula* Temminck & Schlegel.

Hiraaaji; Kaiwari (Misaki, Sagami).

Caranx equula Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 111, pl. LX, fig. 1. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

381. *Caranx delicatissimus* Döderlein.

Shimaaji.

Caranx delicatissimus Döderlein, Fische Japans, III, 1884, p. 184. Tōkyō.

Distrib.—Tōkyō to Nagasaki.

382. *Caranx flavocæruleus* Temminck & Schlegel.

Gingameaji (Nagasaki).

Caranx flavo-cæruleus Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 110, pl. LIX, fig. 2. Nagasaki.

Distrib.—Seas of Japan.

* *Caranx ignobilis* (Forskål).

Rōnin-aji.

Scomber ignobilis Forskål, Descript. Anim., 1775, p. 55. Red Sea.

Distrib.—Samoa; Hawaii; New Guinea; East Indies; north to Japan.

383. *Caranx forsteri* Cuvier & Valenciennes.**Kasumi-aji.**

Caranx forsteri Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 1833, p. 107.
Isle of France; Malabar; Celebes; New Guinea; New Ireland; Vanicolo;
East Indies.

Distrib.—Samoa; Hawaii; Papua; Vanicolo; New Ireland; New Guinea; Tanna;
Tahiti; East Indies; Japan.

384. *Caranx helvolus* (Forster).**Oki-aji.**

Scomber helvolus Forster, Descr. Anim., 1775, pp. 414, 415. Probably
Society Islands.

Distrib.—Hawaii; Nagasaki.

385. *Caranx armatus* (Forskål).**Yoroi-aji.**

Sciæna armata Forskål, Descr. Anim., 1775, p. 53.

Distrib.—New Britain; New Guinea; East Indies; Formosa; Japan.

386. *Caranx deani* Jordan & Seale.**Nanyō-aji.**

Caranx deani Jordan & Seale, Proc. U. S. Nat. Mus., XXVIII, 1905, p. 776,
fig. 2. Negros, P. I.

Distrib.—Philippine Is.; Japan.

Genus *Alectis* Rafinesque.

Gallus Lacépède, Hist. Nat. Poiss., IV, 1802, p. 583 (*Gallus virescens*
Lacépède = *Zeus ciliaris* Bloch. The generic name *Gallus* preoccupied in
ornithology).

Alectis Rafinesque, Analyse de la Nature, 1815, p. 84 (substitute for *Gallus*
preoccupied).

387. *Alectis ciliaris* (Bloch).**Itohikidai; Kanzashidai (Misaki, Sagami).**

Zeus ciliaris Bloch, Ichthyol., VI, 1788, p. 27, pl. 191. East Indies.

Distrib.—Hawaii; Samoa; New Ireland; Tahiti; Palau Is.; Kingsmill I.; New
Guinea; Solomon Is.; Japan.

Genus *Trachinotus* Lacépède.

Trachinotus Lacépède, Hist. Nat. Poiss., III, 1802, p. 79.

Type *Labrus falcatus* Linnaeus.

388. *Trachinotus ovatus* (Linnaeus).

Koban-aji.

Gasterosteus ovatus Linnaeus, Syst. Nat., 10th ed., 1758, p. 296. Asia.

Distrib.—Samoa ; New Hebrides ; Japan ; New Guinea.

Family RACHYCENTRIDÆ.**Genus Rachycentron** Kaup.*Rachycentron* Kaup, Isis, XIX, Col., 1826, p. 89.Type *Rachycentron typus* Kaup.389. *Rachycentron canadum* (Linnaeus).

Sugi ; Misakishiira.

Gasterosteus canadus Linnaeus, Syst. Nat., 12th ed., 1766, p. 491. Carolina.

Distrib.—Warm seas ; Atlantic ; Indian Ocean ; Japan.

Family EQUULIDÆ.**Genus Leiognathus** Lacépède.*Leiognathus* Lacépède, Hist. Nat. Poiss., IV, 1802, p. 448.Type *Leiognathus argenteus* Lacépède.390. *Leiognathus argenteus* Lacépède.

Hiiragi (Nagasaki) ; Nirogi (Tosa).

Leiognathus argenteus Lacépède, Hist. Nat. Poiss., IV, 1802, pp. 448, 449.
Tranquebar.*Equula nuchalis* Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 126,
pl. LXVII, fig. 1. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

391. *Leiognathus rivulatum* (Temminck & Schlegel).

Oki-hiiragi ; Okinirogi (Tosa).

Equula rivulata Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 126,
pl. LXVII, fig. 2. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

392. *Leiognathus lineolatum* (Cuvier & Valenciennes).

Ito-hiiragi.

Equula lineolata Cuvier & Valenciennes, Hist. Nat. Poiss., X, 1835, p. 86. Java.

Distrib.—Nagasaki ; East Indies.

393. *Leiognathus elongatus* Smith & Pope. (Fig. 92).

Hime-hiiragi.

Leiognathus elongatus Smith & Pope, Proc. U. S. Nat. Mus., XXXI, 1906,
p. 466, fig. 2. Kagoshima.

Distrib.—Kagoshima.

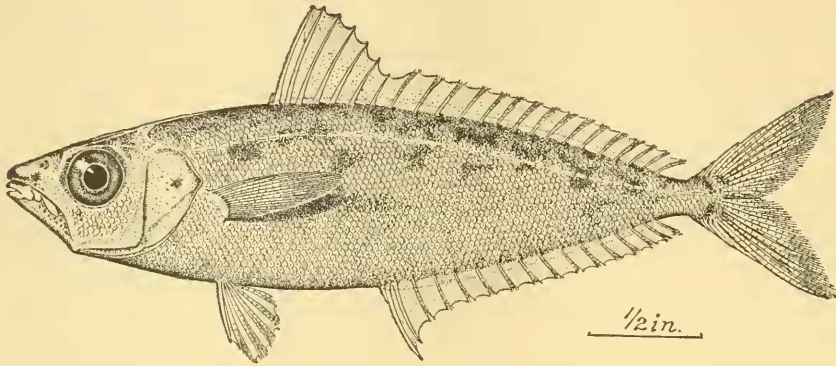


Fig. 92.

Family CORYPHÆNIDÆ.**Genus Coryphæna** Linnaeus.*Coryphæna* Linnaeus, Syst. Nat., 10th ed., 1758, p. 261.Type *Coryphæna hippurus* Linnaeus.394. *Coryphæa hippurus* Linnaeus.

Shiira (Tōkyō); Tōyaku (Misaki, Sagami); Kumabiki (Ōsaka; Tosa).

Coryphæna hippurus Linnaeus, Syst. Nat., 10th ed., 1758, p. 261. Open seas.*Coryphæna japonica* Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p.
120, pl. LXIV. Nagasaki.

Distrib.—Hawaii; South Sea; East Indies; Japan.

Family LAMPRIDÆ.**Genus Lampris** Retzius.*Lampris* Retzius, K. Vet. Ac. Nya Handlingar, XX, 1799, p. 97.Type *Zeus guttatus* Brünnich = *Zeus regius* Bonnaterre.395. *Lampris regia* (Bonnaterre).

Akamanbō (Tōkyō); Mandai; Eboshidai; Mombō (Ac-mori).

Zeus regius Bonnaterre, Encycl. Ichth., 1788, p. 72, pl. 39. Torbay, England.

Distrib.—Atlantic; Pacific; Hawaii; Japan; all warm seas.

Family PTERACLIDÆ.**Genus Centropholis** Hilgendorf.

Centropholis Hilgendorf, S.B. Nat. Fr., 1878, p. 1.

Type *Centropholis petersi* Hilgendorf.

396. Centropholis petersi Hilgendorf.

Ryuguu-no-tsukai.

Centropholis petersi Hilgendorf, S. B. Nat. Fr., 1878, p. 1. Japanese Seas.

Distrib.—Sagami Sea.

Genus Bentenia Jordan & Snyder.

Bentenia Jordan & Snyder, Journ. Coll. Sci. Imp. Univ. Tokyo, XV, pt. 2,
May 20, 1901, p. 306.

Type *Bentenia æsticola* Jordan & Snyder.

397. Bentenia æsticola Jordan & Snyder.

Benten-uwo.

Bentenia æsticola Jordan & Snyder, Journ. Coll. Sci. Imp. Univ. Tokyo, XV,
pt. 2, May 20, 1901, p. 306. Kashima near Mito, Hitachi.

Distrib.—Off Kashima, Hitachi.

Genus Pteraclis Gronow.

Pteraclis Gronow, Acta Helvetica, VII, 1772, p. 44.

Type *Coryphæna velifera* Pallas.

398. Pteraclis macropus Bellotti.

Pteraclis macropus Bellotti, Atti Mus. Milano, XLII, 1903, p. 137, pl. VII.
Japan.

Distrib.—Yokohama.

Family BRAMIDÆ.**Genus Brama** Bloch & Schneider.

Brama Bloch & Schneider, Syst. Ichth., 1801, p. 98.

Type *Sparus raii* Bloch.

399. *Brama raii* (Bloch).

Shimagatsuwo.

Brama marina cauda forcipata Ray, Synopsis Methodica Piscium, 1713, p. 115. Middelburg.

Sparus raii Bloch, Ichthyol., 1791, pl. 273. After Ray, etc.

Distrib.—Indian Sea; Chile; Japan.

400. *Brama japonica* Hilgendorf.

Hama-shimagatsuwo.

Brama japonica Hilgendorf, S. B. Nat. Freund., 1878, p. 1. Japanese seas.

Distrib.—Japanese seas.

Genus *Taractes* Lowe.

Taractes Lowe, Proc. Zool. Soc. Lond., 1863, p. 82.

Argo Döderlein, Fisch. Japans, III, 1884, p. 7 (*Argo steindachneri* Döderlein).

The generic name *Argo* preoccupied in Mollusks, by Bohadsch, 1761).

Type *Brama longipinnis* Lowe.

401. *Taractes steindachneri* (Döderlein).

Manzai-uwo; Eboshidai.

Argo steindachneri Döderlein, Fische Japans, III, 1884, p. 174. Tōkyō.

Distrib.—Tōkyō.

Family **MENIDÆ.**Genus *Mene* Lacépède.

Mene Lacépède, Hist. Nat. Poiss., V, 1803, p. 479.

Type *Mene anna carolina* Lacépède.

402. *Mene maculata* (Bloch & Schneider).

Ginkagami.

Zeus maculatus Bloch & Schneider, Ichthyol., 1801, p. 95, pl. 22.

Tranquebar.

Distrib.—East Indian seas; Hawaii; Japan.

Family **STROMATEIDÆ.**Genus *Apolectus* Cuvier & Valenciennes.

Apolectus Cuvier & Valenciennes, Hist. Nat. Poiss., VIII, 1831, p. 438. This

genus may belong to the *Carangidae*.

Type *Stromateus niger* Bloch.

403. *Apolectus niger* (Bloch). (Fig. 93).

Kuro-ajimodoki.

Stromateus niger Bloch, Ichthyol., XII, 1792, p. 85, taf. 422.

Distrib.—East Indian Seas; Hawaii; Japan.

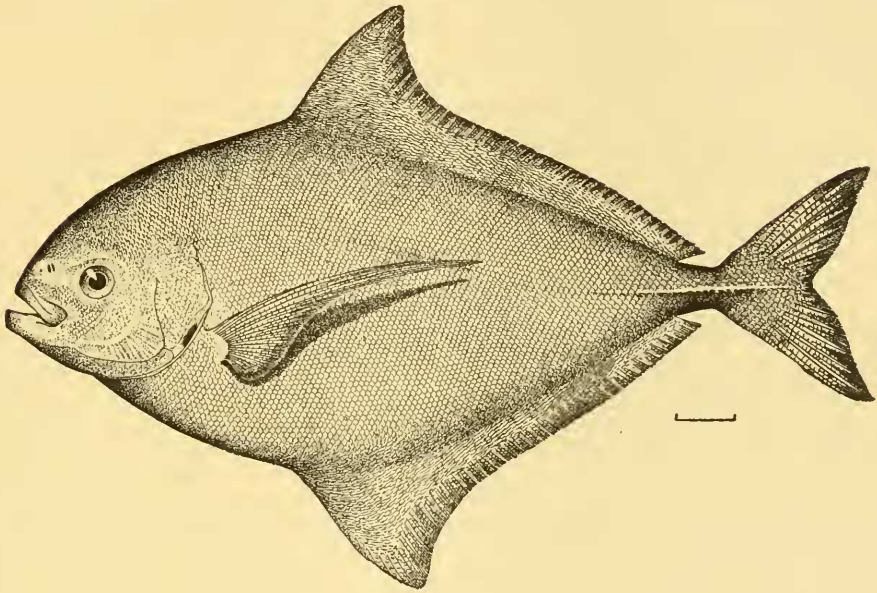


Fig. 93.

Genus *Stromateoides* Bleeker.

Stromateoides Bleeker, Makr., 1851, p. 368.

Type *Stromateoides cinereus* Bleeker.

404. *Stromateoides argenteus* (Euphrasen).

Managatsuwo.

Stromateus argenteus Euphrasen, Ventensk. Acad. Nya Händl. Stockh., IX, 1788, p. 46, tab. 9.

Stromateus punctatissimus Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 121, pl. LXV. Nagasaki.

Distrib.—Korea; China; southern Japan.

405. Stromateoides nozawæ Ishikawa.

Aduma-managatsuwo.

Stromateoides nozawæ Ishikawa, Proc. Dep. Nat. Hist., Tokyo Imp. Mus., I,
April 8, 1904, p. 8. Kanagawa.

Distrib.—Kanagawa.

Genus Psenopsis Gill.*Psenopsis* Gill, Proc. Acad. Nat. Sci. Phila., 1862, p. 127.Type *Trachinotus anomalus* Temminck and Schlegel.**406. Psenopsis anomala** (Temminck & Schlegel).

Iboda; Ebodai.

Trachinotus anomalus Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p.
107, pl. LVII, fig. 2.

Distrib.—Tōkyō to Nagasaki.

Genus Centrolophus Lacépède.*Centrolophus* Lacépède, Hist. Nat. Poiss., IV, 1803, p. 441.Type *Perca niger* Gmelin.**407. Centrolophus japonicus** Döderlein.

Medai.

Centrolophus japonicus Döderlein, Fische Japans, III, 1884, p. 183. Tōkyō.

Distrib.—Tōkyō.

Genus Labracoglossa Peters.*Labracoglossa* Peters, Monatsb. Akad. d. Wiss. Berlin, 1866, p. 513.*Cypselichthys* Steindachner & Döderlein, Fische Japans, II, 1883, p. 14
(*Cypselichthys japonicus* Steindachner & Döderlein).Type *Labracoglossa argentiventris* Peters.**408. Labracoglossa argentiventris** Peters.

Takabe.

Labracoglossa argentiventris Peters, Monatsb. Akad. Wiss. Berlin, 1866, p.
513.*Cypselichthys japonicus* Steindachner & Döderlein, Fische Japans, II, 1883, p.
14. Tōkyō; Yokohama.

Distrib.—Tōkyō; Yokohama; Wakanoura.

Family PEMPHERIDÆ.**Genus Pempheris** Cuvier & Valenciennes.

Pempheris Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 1831, p. 296.

Type *Pempheris oualensis* Cuvier & Valenciennes.

409. Pempheris japonicus Döderlein.

Agonashi.

Pempheris japonicus Döderlein, Fische Japans, II, 1883, p. 29. Tōkyō.

Distrib.—Tōkyō.

Genus Parapriacanthus Steindachner.

Parapriacanthus Steindachner, Sitzb. Akad. Wien, LXI, 1870, p. 1, figs. 1 & 2.

Type *Parapriacanthus ransonnetii* Steindachner.

410. Parapriacanthus ransonnetii Steindachner.

Nagasaki-kinme.

Parapriacanthus ransonnetii Steindachner, Sitzb. Akad. Wien, LXI, 1870, p. 1, taf. I, figs. 1 & 2.

Distrib.—Nagasaki.

411. Parapriacanthus beryciformis Franz.

Kinme-modoki.

Parapriacanthus beryciformis Franz, Abh. Bayer. Akad., 1910, p. 33, taf. VI, fig. 46. Yokohama.

Distrib.—Yokohama.

Genus Catalufa Snyder.

Catalufa Snyder, Proc. U. S. Nat. Mus., XL, 1911, p. 528.

Type *Catalufa umbra* Snyder.

412. Catalufa umbra Snyder.

Tsumaguro-agonashi.

Catalufa umbra Snyder, Proc. U. S. Nat. Mus., XL, 1911, p. 528. Misaki, Sagami.

Distrib.—Misaki, Sagami.

Family CHEILODIPTERIDÆ.**Genus Apogonichthys** Bleeker.

Apogonichthys Bleeker, Floris, 1854, p. 321.

Mionorus Kreffft, Proc. Zool. Soc. Lond., 1867, p. 942 (*Mionorus lunatus* Kreffft).

Type *Apogonichthys perdx* Bleeker.

413. *Apogonichthys carinatus* (Cuvier & Valenciennes). (Fig. 94).

Matō-ishimochi.

Apogon carinatus Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 157.
Japan.

Distrib.—Wakanoura ; Nagasaki.

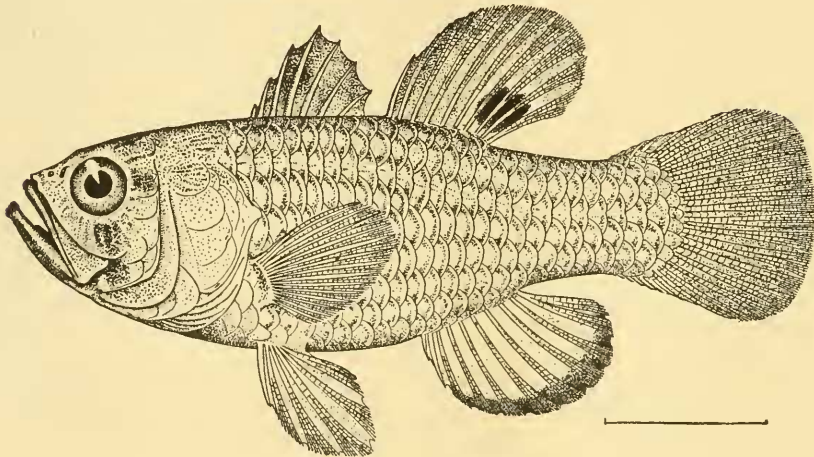


Fig. 94.

Genus *Amia* Gronow.

Amia Gronow, Zoophyl., 1763, p. 80.

Apogon Lacépède Hist. Nat. Poiss., III, 1802, p. 411 (*Apogon ruber* Lacépède = *Mullus imberbis* Linnaeus).

Type *Amia cauda-bifurcata* = *Amia percaformis* Gronow = *Apogon moluccensis* Valenciennes.

414. *Amia lineata* (Temminck & Schlegel). (Fig. 95).

Tenjikudai ; Mochiuwo (Misaki, Sagami) ; **Gennai** (Susaki, Tosa) ; **Ishimochi** (Nagasaki).

Apogon lineatus Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 3.
Nagasaki.

Distrib.—Nagasaki to Tōkyō.

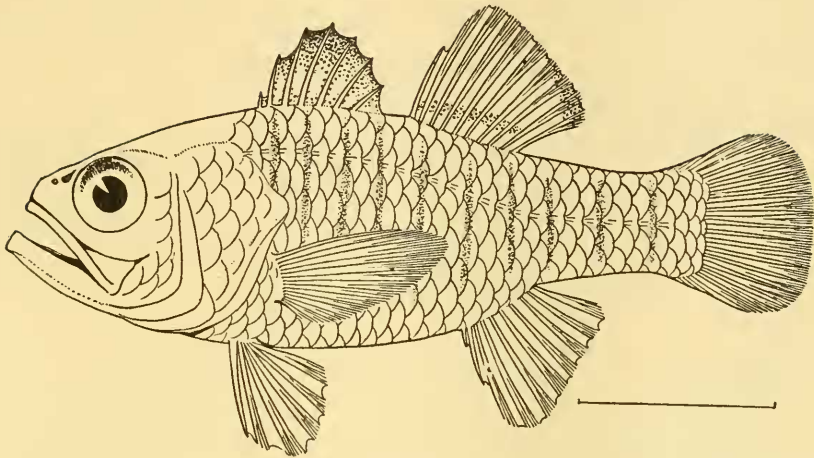


Fig. 95.

415. *Amia nigra* (Döderlein). (Fig. 96).

Kuro-ishimochi.

Apogon niger Döderlein, Fische Japans, II, 1883, p. 1. Shikoku.

Distrib.—Nagasaki ; Mogi ; Shikoku.

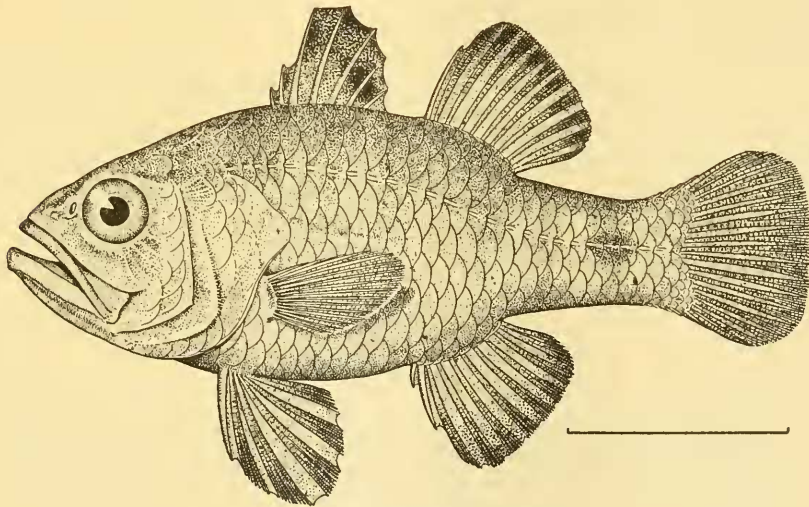


Fig. 96.

416. *Amia marginata* (Döderlein). (Fig. 97).

Tsumaguro-ishimochi.

Apogon marginatus Döderlein, Fische Japans, II, 1883, p. 2. Kagoshima ; Kochi in Shikoku.

Distrib.—Wakanoura ; Kagoshima ; Kōchi.

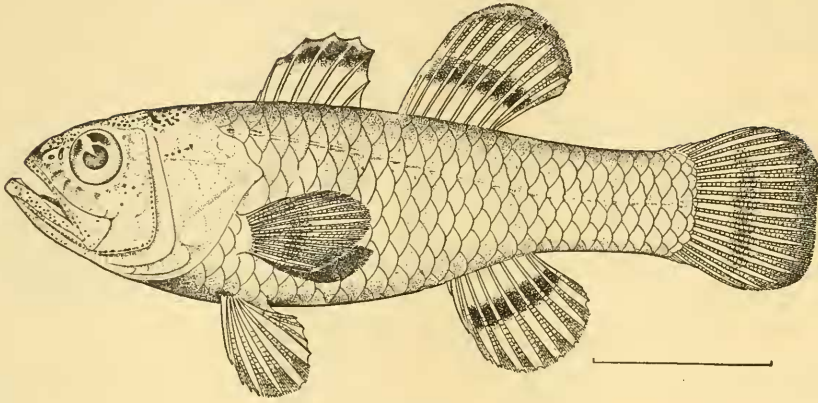


Fig. 97.

417. *Amia unicolor* (Döderlein).

Hana-ishimochi.

Apogon unicolor Döderlein, Fische Japans, II, 1883, p. 2. Shikoku ;
Kagoshima.

Distrib.—Yokohama ; Shikoku ; Kagoshima.

418. *Amia schlegeli* (Bleeker). (Fig. 98).

Kosuji-ishimochi.

Apogon novemfasciatus Temminck & Schlegel, Fauna Japonica, Poiss., 1842,
p. 2, pl. II, fig. 2. Nagasaki. (Not of Cuvier & Valenciennes).

Apogon schlegeli Bleeker, Verhand. Batav. Genoots., XXVI, p. 55. After
Temminck & Schlegel.

Distrib.—Nagasaki.

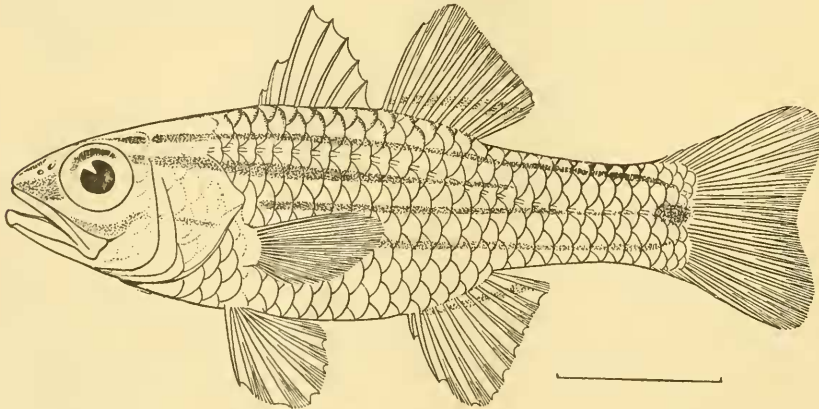


Fig. 98.

419. *Amia dæderleini* (Jordan & Snyder). (Fig. 99).

Ōsuji-ishimochi.

Apogon dæderleini Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 901, fig. 6. Nagasaki.

Distrib.—Nagasaki.

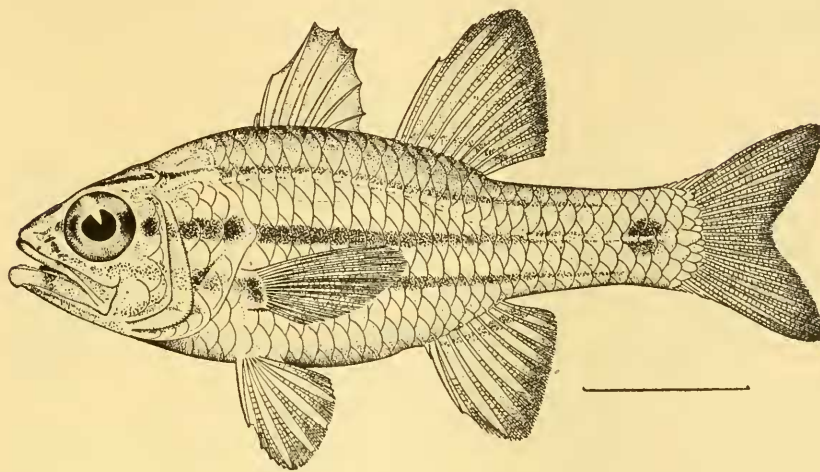


Fig. 99.

420. *Amia semilineata* (Temminck & Schlegel). (Fig. 100).

Nenbutsu-dai.

Apogon semilineatus Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 4, pl. II, fig. 3. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

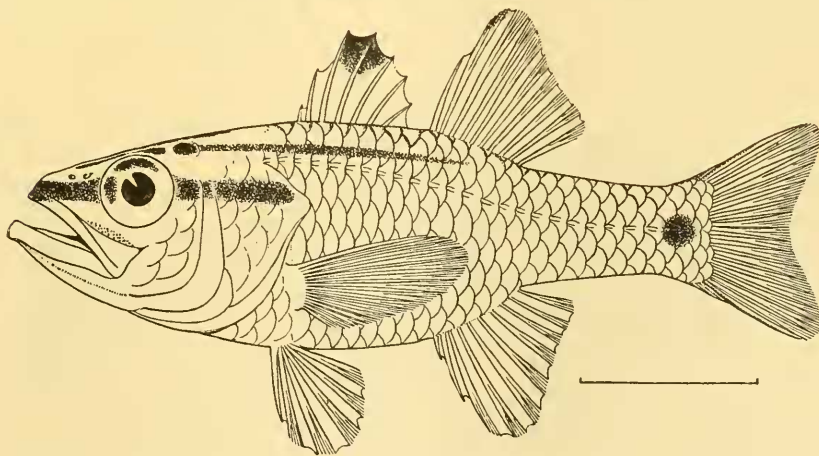


Fig. 100.

421. *Amia notata* (Houttuyn). (Fig. 101).

Kurohoshi-ishimochi.

Sparus notatus Houttuyn, Beschryving van eenige Japanse Visschen, Holland. Maatschappye van Weetenschapp. te Harlem, XX, 1782, pp. 311—346. Nagasaki.

Apogon kiushianus Döderlein, Fische Japans, II, 1883, p. 2. Kagoshima.
Distrib.—Wakanoura ; Nagasaki ; Kagoshima.

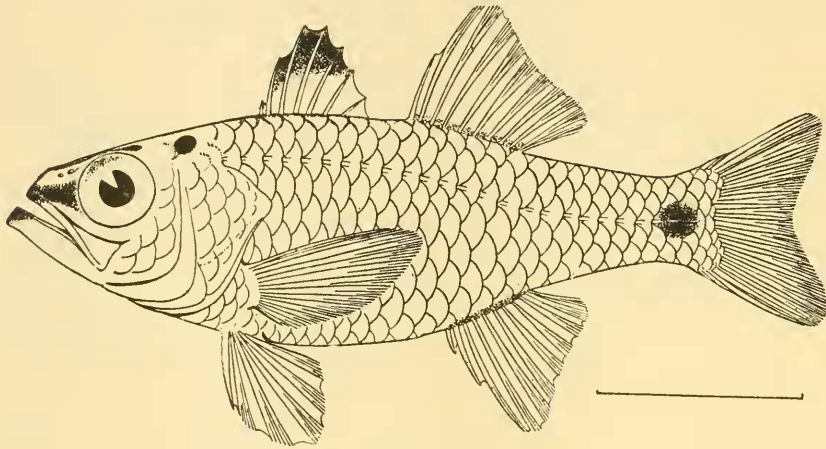


Fig. 101.

422. *Amia kiensis* (Jordan & Snyder). (Fig. 102).

Teppō-ishimochi.

Apogon kiensis Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 905, fig. 9. Wakanoura.

Distrib.—Wakanoura.

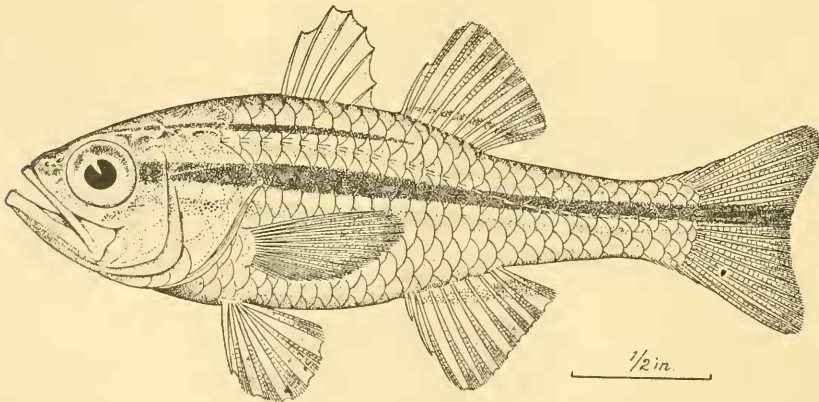


Fig. 102.

Genus Archamia Gill.

Archamia Gill, Proc. Ac. Nat. Sci. Phila., 1863, p. 81.

Type *Apogon macropterus* Kuhl & Van Hasselt.

423. *Archamia kagoshimana* (Döderlein).

Atohiki-ishimochi.

Apogon kagoshimanus Döderlein, Fische Japans, III, 1883, p. 3. Kagoshima.

Distrib.—Kagoshima.

Genus Cheilodipterus Lacépède.

Cheilodipterus Lacépède, Hist. Nat. Poiss., III, 1802, p. 542.

Paramia Bleeker, Revision Apogonini, 1874, p. 74 (*Centropomus macrodon* Lacépède).

Type *Cheilodipterus heptacanthus* Lacépède.

424. *Cheilodipterus quinquelineatus* Cuvier & Valenciennes.

Yarai-ishimochi.

Cheilodipterus quinquelineatus Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 167. Society Islands.

Distrib.—Kagoshima ; Samoa ; New Guinea ; Raiatea ; Nukahiva.

Genus Synagrops Günther.

Melanostoma Döderlein, Beiträge zur Kenntniss Fische Japans, II, 1883, p. 5 (*Melanostoma japonicum* Döderlein. The generic name *Melanostoma* preoccupied).

Synagrops Günther, Challenger Rept., XXII, 1887, p. 16.

Type *Melanostoma japonicum* Döderlein.

425. *Synagrops japonica* (Döderlein).

Sumi-ku-i-owo.

Melanostoma japonicum Döderlein, Fische Japans, II, 1883, p. 6. Off Tōkyō.

Distrib.—Tōkyō.

Genus Scombrops Temminck & Schlegel.

Scombrops Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 118.

Type *Scombrops cheilodipteroides* Bleeker = *Sparus boops* Houttuyn.

426. *Scombrops boops* (Houttuyn).

Mutsu ; Okimutsu.

Sparus boops Houttuyn, Beschryving Jap. Visschen, 1782, pp. 311-346. Nagasaki.

Scombrops Temminck & Schlegel, Fauna Japonica, Poiss., 1885, p. 118, pl. LXII, fig. 2. Nagasaki.

Scombrops cheilodipteroides Bleeker, Verhand. Bat. Gen., XXV, Japan, p. 9; XXVI, Japan, p. 58. Nagasaki.

Distrib.—Same to Nagasaki.

Genus *Telescopias* Jordan & Snyder.

Telescopias Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 909.

Type *Telescopias gilberti* Jordan & Snyder.

427. *Telescopias gilberti* Jordan & Snyder. (Fig. 103).

Kuromutsu.

Telescopias gilberti Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 909, pl. XLIV. Off Misaki, Sagami.

Distrib.—Misaki, Sagami.

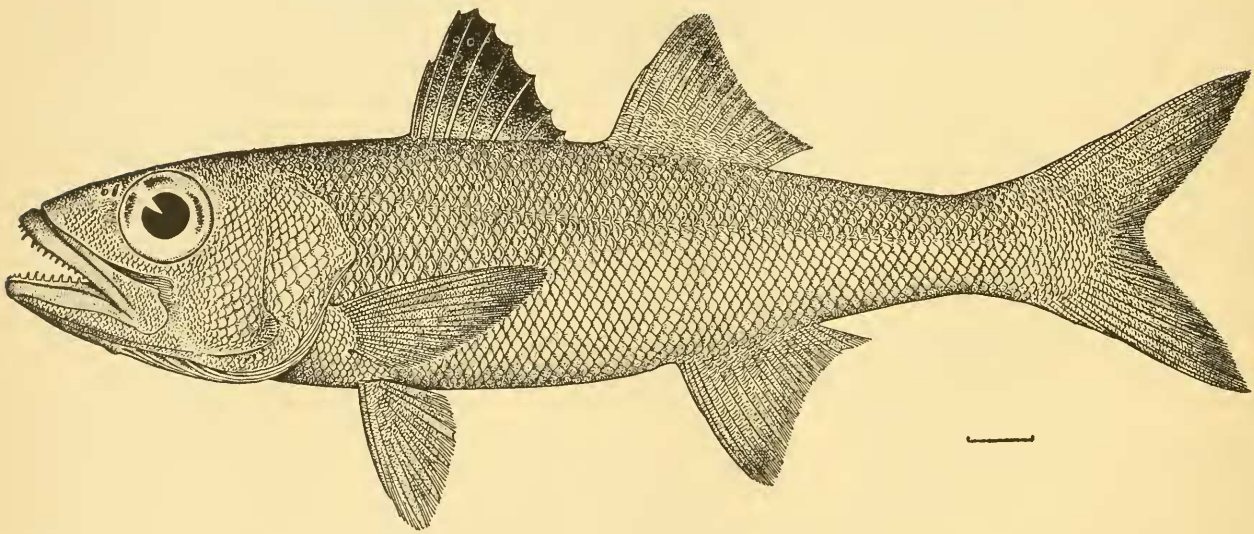


Fig. 103.

Genus *Gymnapogon* Regan.

Gymnapogon Regan, Ann. Mag. Nat. Hist., XV, 1905, p. 19.

Type *Gymnapogon japonicus* Regan.

428. *Gymnapogon japonicus* Regan.

Hage-ishimochi.

Gymnapogon japonicus Regan, Ann. Mag. Nat. Hist., XV, 1905, p. 20.
Inland Sea.

Distrib.—Inland Sea.

Family AMBASSIDÆ.**Genus *Ambassis*** Cuvier & Valenciennes.

Ambassis Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 175.

Type, *Ambassis commersonii* Cuvier & Valenciennes.

429. *Ambassis lafa* Jordan & Seale.

Takasago-ishimochi.

Ambassis lafa Jordan & Seale, Fish. Samoa., Bull. U. S. Bureau Fisheries, XXV, 1905, p. 253, fig. 46. Samoa.

Distrib.—Sagami ; Tanegashima (Snyder ms.).

Family ACROPOMATIDÆ.**Genus *Acropoma*** Temminck & Schlegel.

Acropoma Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 31.

Type *Acropoma japonicum* Günther.

430. *Acropoma japonicum* Günther. (Fig. 104).

Dabc-nutsu.

Acropoma Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 31, pl. XII, figs. 2,3. Nagasaki.

Acropoma japonicum Günther, Cat. Fish., I, 1859, p. 250. After Temminck & Schlegel.

Distrib.—Wakanoura ; Misaki, Sagami ; Nagasaki.

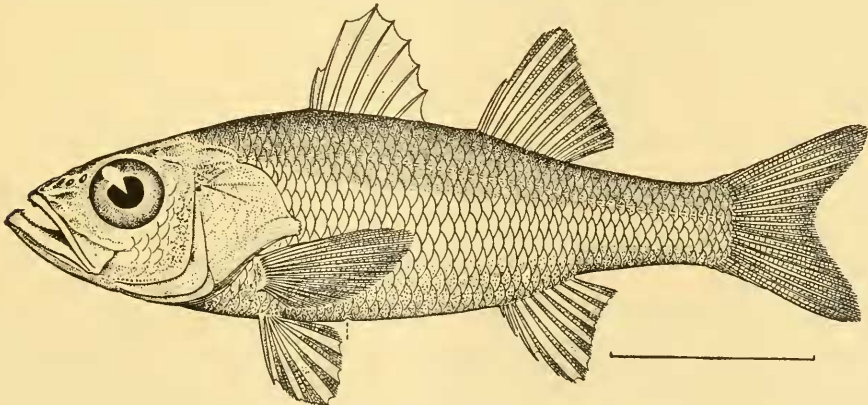


Fig. 104.

Family KUHLIIDÆ.**Genus Kuhlia** Gill.

Kuhlia Gill, Proc. Ac. Nat. Sci. Phila., 1851, p. 48.

Type *Perca ciliata* Cuvier & Valenciennes = *Eules marginatus* Cuvier & Valenciennes.

431. *Kuhlia marginata* (Cuvier & Valenciennes).

Dokugyo.

Dules marginatus Cuvier & Valenciennes, Hist. Nat. Poiss., III, 1829, p. 116, pl. LII. Java.

Distrib.—Fiji; Tahiti; Samoa; Gilbert Is; Papua; Bonham I.; Misol; East Indies; Philippines; Idsu, Japan.

Genus Sefole Jordan.

Boulengerina Fowler, Proc. Acad. Nat. Sci. Phila., LVIII, 1907, p. 512. (*Dules mato* Lesson = *Dules malo* Cuvier & Valenciennes. The generic name *Boulengerina* preoccupied in snakes, by *Boulengerina* Dollo, 1886).

Sefole Jordan, Proc. U. S. Nat. Mus., vol., 1912, p.

Type *Dules tæniurus* Cuvier & Valenciennes.

432. *Sefole tæniura* (Cuvier & Valenciennes).

Gin-dokugyo.

Dules tæniurus Cuvier & Valenciennes, Hist. Nat. Poiss., III, 1829, p. 114. Java.

Distrib.—Samoa; Johnston I.; Marcus I.; Tubuai; Paumotu Is.; Tahiti; East Indies; Galapagos Is.; Misaki, Sagami; Tanegashima, Satsuma.

Family PRIACANTHIDÆ.**Genus Priacanthus** Cuvier.

Priacanthus Cuvier, Règne Anim., 1st ed., II, 1817, p. 281.

Type *Priacanthus macrophthalmus* Cuvier & Valenciennes.

433. *Priacanthus macracanthus* Cuvier & Valenciennes.

Benimebaru; Kinme (Misaki, Sagami).

Priacanthus macracanthus Cuvier & Valenciennes, Hist. Nat. Poiss., III, 1829, p. 108. Amboyna.

Priacanthus bennebari Temminck & Schlegel, Fauna Japonica, Poiss., 1842,
p. 19, pl. VII, fig. 1. Nagasaki.
Distrib.—Japan.

434. *Priacanthus hamrur* (Forskål).

Hōseki-kinme.

Sciæna hamrur Forskål, Descr. Anim., 1775, p. 45. Red Sea.

Priacanthus dubius Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p.
19. Nagasaki.

Distrib.—Red Sea ; New Guinea ; Solomon Is ; East Indies ; Philippines ;
Hawaii ; Samoa ; Japan.

435. *Priacanthus japonicus* Cuvier & Valenciennes.

Chikame-kinme.

Priacanthus japonicus Cuvier & Valenciennes, Hist. Nat. Poiss, III, 1829, p.
106, pl. L. Japan.

Priacanthus supra-armatus Hilgendorf, S. B. Nat. Fr., 1879, p. 79. Japan.

Priacanthus schlegeli Hilgendorf, Sitzber., Ges. Naturf., 1879, p. 79. Japan.

Distrib.—St. Helena ; Coast of Mozambique ; Japan.

Genus *Pseudopriacanthus* Bleeker.

Pseudopriacanthus Bleeker, Versl. Ak. Wet. Amsterd. (2), III, 1869, p. 241.

Type *Priacanthus niphonius* Cuvier & Valenciennes.

436. *Pseudopriacanthus niphonius* (Cuvier & Valenciennes).

Kurumadai ; Kinkodai.

Priacanthus niphonius Cuvier & Valenciennes, Hist. Nat. Poiss., III, 1829, p.
107. Japan.

Distrib.—Coasts of central & southern Japan.

Family SERRANIDÆ.

Genus *Malakichthys* Döderlein.

Malakichthys Döderlein, Fische Japans, II, 1883, p. 240.

Satsuma Smith & Pope, Proc. U. S. Nat. Mus., XXXI, 1906, p. 472. (*Satsuma
macrops* Smith & Pope).

Type *Malakichthys griscus* Döderlein.

437. *Malakichthys griseus* Döderlein. (Fig. 105).

Ōmehata.

Malakichthys griseus Döderlein, Fische Japans, I, 1883, p. 240, fig. 1, in Fische Japans, II, 1883, pl. II, fig. 1. Tōkyō.

Satsuma macrops Smith & Pope, Proc. U. S. Nat. Mus., XXXI, 1906, p. 472, fig. 5. Kagoshima.

Distrib.—Sagami Bay ; Kagoshima.

Genus *Diploprion* Kuhl & Van Hasselt.

Diploprion Kuhl & Van Hasselt, in Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 137.

Type *Diploprion bifasciatum* Kuhl & Van Hasselt.

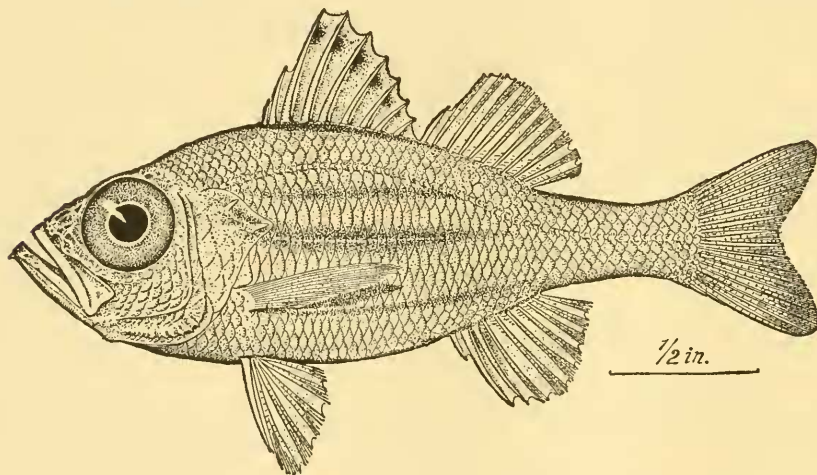


Fig. 105.

438. *Diploprion bifasciatum* Kuhl & Van Hasselt. (Fig. 106).

Okimado ; Kihassoku (Kishū).

Diploprion bifasciatum Kuhl & Van Hasselt, in Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 137, pl. XXI. Java.

Distrib.—From Tōkyō southward to China and India.

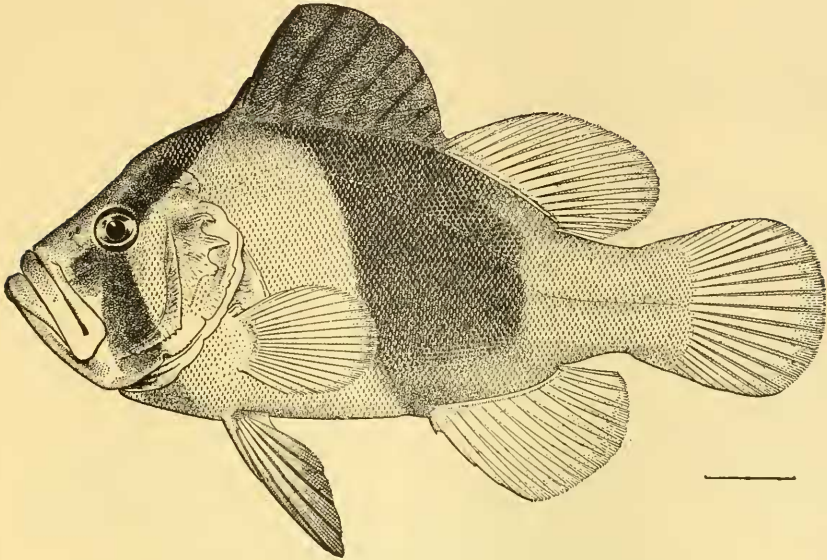


Fig. 106.

Genus *Lateolabrax* Bleeker.

Lateolabrax Bleeker, Nieuwe Nalez., Japan, 1857, p. 53.

Perclabrax Günther, Cat. Fish., I, 1859, p. 70. (*Labrax japonicus* Cuvier & Valenciennes. After *Perca-labrax* of Temminck & Schlegel).

Type *Labrax japonicus* Cuvier & Valenciennes.

439. *Lateolabrax japonicus* (Cuvier & Valenciennes).

Suzuki; Seigo.

Labrax japonicus Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 85.
Sea of Japan.

Distrib.—Coasts of China and Japan; Port Arthur.

Genus *Niphon* Cuvier & Valenciennes.

Niphon Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 131.

Type *Niphon spinosus* Cuvier & Valenciennes.

440. *Niphon spinosus* Cuvier & Valenciennes.

Ara (Tōkyō); Okidara (Nagasaki).

Niphon spinosus Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 131,
pl. XIX. Sea of Japan.

Distrib.—Coasts of Japan to Philippines.

Genus *Bryttosus* Jordan & Snyder.*Bryttosus* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 354.Type *Serranus kawamebari* Temminck Schlegel.441. *Bryttosus kawamebari* (Temminck & Schlegel). (Fig. 107).*Oyanirami* (Tsuyama, Sakushū); *Nerami* or *Oyanerami* (Yamaguchi); *Ojinirami* (Prov. Hōki); *Yotsume*; *Kawamebari*.*Serranus kawamebari* Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 5. Japan.

Distrib.—Yamagawa R. near Funayado; Yabe River at Funayado, Kiusiu; Tsuyama, Sakushū; Waniishi R. at Yamaguchi.

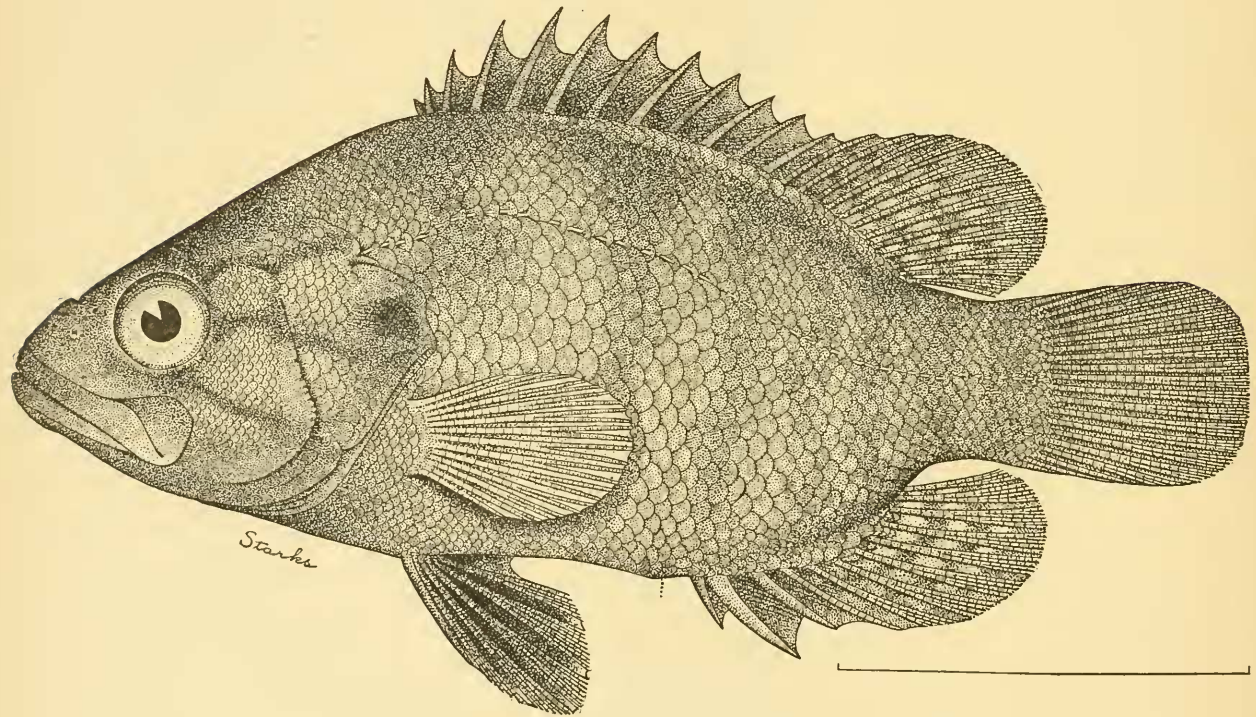


Fig. 107.

Genus *Stereolepis* Ayres.*Stereolepis* Ayres, Proc. Cal. Acad., II, 1859, p. 28.*Megaperca* Hilgendorf, Sitzb. Ges. Nat. Freund., Berlin, 1878, p. 155.(*Megaperca ischinagi* Hilgendorf).Type *Stereolepis gigas* Ayres.

442. *Stereolepis ischinagi* (Hilgendorf). (Fig. 108).

Ishinagi; Ōiwo.

Megaperca ischinagi Hilgendorf, Sitzb. Ges. Nat., Freund. Berlin, 1878, p. 156.
Tōkyō and Yokohama.

Distrib.—Otaru to Misaki, Sagami.

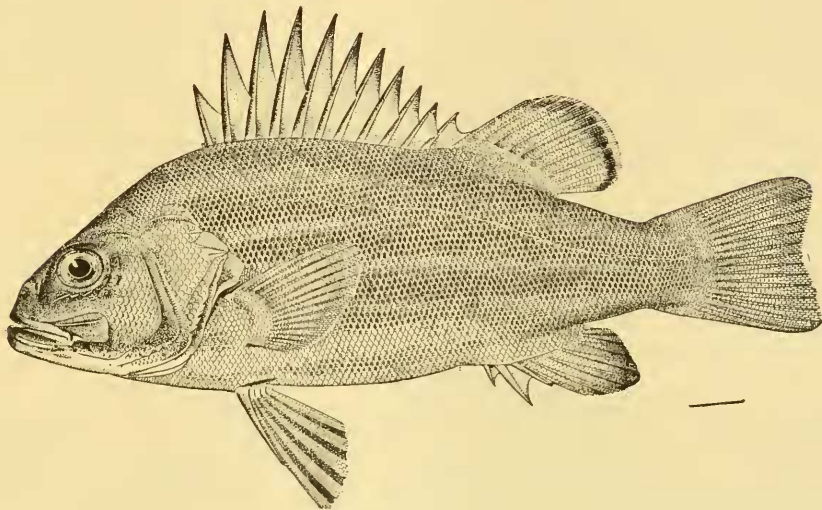


Fig. 108.

Genus *Aulacocephalus* Temminck & Schlegel.*Aulacocephalus* Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 15.Type *Aulacocephalus temmincki* Bleeker.443. *Aulacocephalus temmincki* Bleeker.

Rurihata.

Aulacocephalus Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 15, pl. V, fig. 2. Nagasaki.*Aulacocephalus temmincki* Bleeker, Verh. Bat. Gen., XXVI, 1857, p. 12.
Japan.*Aulacocephalus schlegeli* Günther, Cat. Fish., I, 1859, p. 17. Isle de France.

Distrib.—From Tōkyō southward; Siam; Mauritius; Isle de France.

Genus *Pikea* Steindachner.*Pikea* Steindachner, Sitzb. Akad. Wien, vol. 71, 1874, p. 375.*Labracopsis* Döderlein, Fische Japans, I, 1883, p. 235. (*Pikea* (*Labracopsis*)
japonica Döderlein).Type *Grystes lunulata* Guichenot.

444. Pikea maculata Steindachner & Döderlein.

Hana-suzuki.

Pikea maculata Steindachner & Döderlein, Fische Japans, I, 1883, p. 234, pl. VI, fig. 1. Tōkyō.

Distrib.—Tōkyō.

445. Pikea japonica Döderlein.

Toge-hana-suzuki.

Pikea (Labracopsis) japonica Döderlein, Fische Japans, I, 1883, p. 235, pl. VI, fig. 3. Tōkyō.

Distrib.—Tōkyō.

Genus Plectropomus (Cuvier) Oken.

Plectropomus Cuvier, Règne Anim., II, 1817, p. 277.

Type *Bodianus maculatus* Bloch.

446. Plectropomus maculatus (Bloch).

Suji-ara.

Bodianus maculatus Bloch, Ichthyol., IV, 1790, p. 48, pl. 228. "Japan," probably Isle de France.

Distrib.—East Indies ; Japan.

Genus Cephalopholis Bloch & Schneider.

Cephalopholis Bloch & Schneider, Syst. Ichth., 1801, P. 311.

Type *Cephalopholis argus* Bloch & Schneider.

447. Cephalopholis hemistictus (Rüppell).

Ao-Hoshi-hata.

Serranus hemistictus Rüppell, Atlas Fische Roth. Meer., 1828, p. 109, pl. XXVII, fig. 3. Red Sea.

Distrib.—Red Sea ; Nagasaki (Tanaka).

Genus Petrometopon Gill.

Petrometopon Gill, Proc. Ac. Nat. Sci. Phila., 1865, p. 105.

Type *Perca guttata* Bloch, not of Linnæus = *Sparus cruentatus* Lacépède.

448. Petrometopon bænack (Bloch).

Sazanami-hata.

Bodianus bænack Bloch, Ichthyologia, IV, 1790, p. 43, pl. 226. Japan.

Perca fusca Thunberg, Vet. Akad. Handl. Stockholm, XIV, 1793, p. 297, pl. IX. Nagasaki.

Distrib.—East Indies, north to China and southern Japan.

Genus *Epinephelus* Bloch.

Epinephelus Bloch, Ichth., VII, 1793, p. 14.

Type *Epinephelus marginalis* Bloch.

449. *Epinephelus chlorostigma* (Cuvier & Valenciennes). (Fig. 109).

Hōseki-hata.

Serranus chlorostigma Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 352. Seychelles.

Distrib.—East Indies, north to southern Japan.

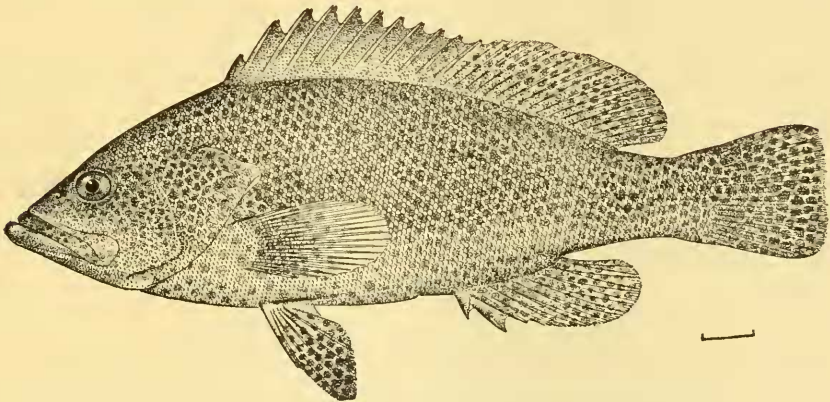


Fig. 109.

450. *Epinephelus craspedurus* Jordan & Richardson. (Fig. 110).

Ōmonhata.

Epinephelus craspedurus Jordan & Richardson, Proc. U. S. Nat. Mus., XXXVII, 1910, p. 447, fig. 7. Kagoshima.

Distrib.—Coasts of southern Japan.

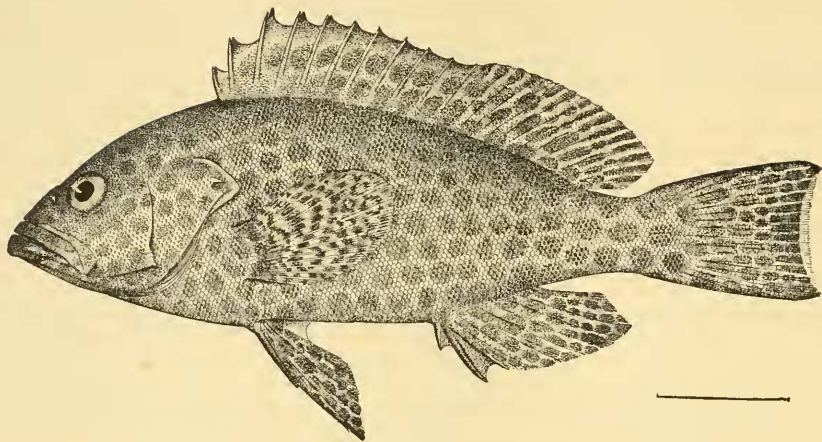


Fig. 110.

451. *Epinephelus megachir* (Richardson). (Fig. 111).

Moyōhata.

Serranus arcolatus japonicus Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 8. Japan. (Not *Epinephelus japonicus* Krusenstern).

Serranus megachir Richardson, Ichth. China, 1846, p. 230. Canton, China.

Distrib.—Coasts of China and southern Japan ; Louisiades ; New Guinea ; East Indies ; Philippines,

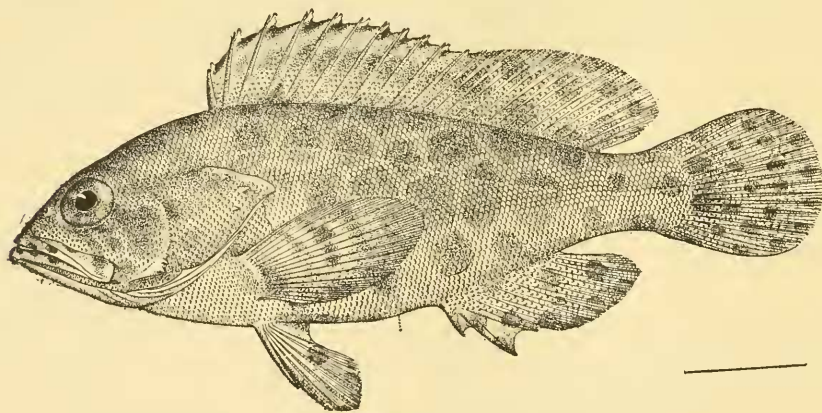


Fig. 111.

452. *Epinephelus akaara* (Temminck & Schlegel).

Kijibata (Misaki, Sagami) ; Akaara (Nagasaki) ; Adukihata.

Serranus akaara Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 9, pl. III, fig. 1. Nagasaki.

Distrib.—Coasts of China and Japan, common north to Tōkyō.

453. *Epinephelus fario* (Thunberg). (Fig. 112).

Hoshi-hata.

Perca fario Thunberg, Nya Handl., XIV, 1792, p. 296, pl. 9. Nagasaki.*Epinephelus japonicus* ("Epinephelus du Japon") Krusenstern, Reise, 1810, pl. 64, fig. 2. Japan.*Serranus trimaculatus* Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 331. After Krusenstern.*Serranus fasciatomaculosus* Peters, Monatsber. Akad. Berlin, 1865, p. 111. Japan. (Based on Bleeker's *Serranus trimaculatus*, Bijdr. Japan, IV, p. 8).*Serranus ura* Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 332. Nagasaki.*Serranus ara* Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 8. Nagasaki.

Distrib.—Coasts of China and southern Japan.

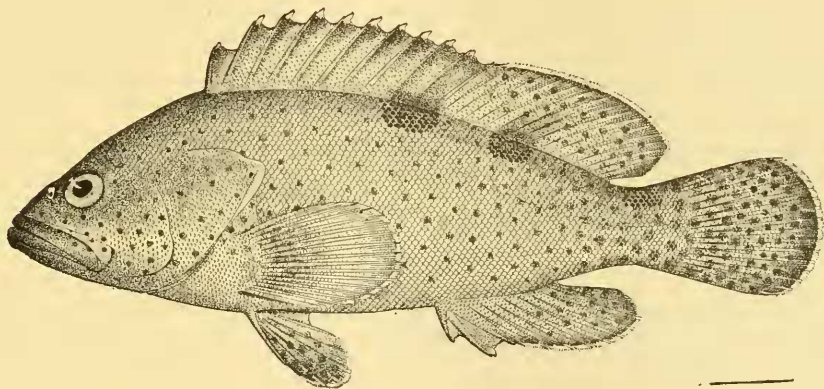


Fig. 112.

454. *Epinephelus latifasciatus* (Temminck & Schlegel).

Osuji-hata.

Serranus latifasciatus Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 6. Nagasaki.

Distrib.—East Indies to Japan.

455. *Epinephelus epistictus* (Temminck & Schlegel). (Fig. 113).

Komon-hata.

Serranus epistictus Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 8. Nagasaki.

Distrib.—Coasts of southern Japan.

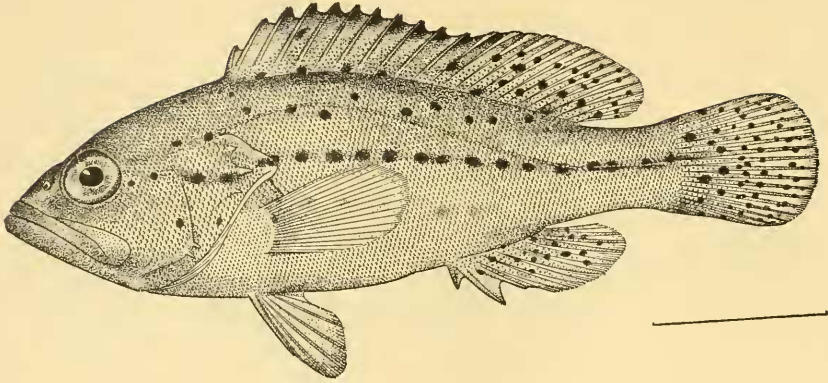


Fig. 113.

456. *Epinephelus pœcilonotus* (Temminck & Schlegel).

Iyago-bata.

? *Serranus morrhua* Cuvier & Valenciennes, Hist. Nat. Poiss., IX, 1833, p. 434. Isle de France.

Serranus pœcilonotus Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 6, pl. 4A, fig. 1. Nagasaki.

Distrib.—East Indies, north to southern Japan.

457. *Epinephelus döderleini* Franz.

Kakehashi-hata.

Serranus brunneus Steindachner & Döderlein, Fische Japans, I, p. 230, taf. V, fig. 1, Japan. Not *Epinephelus brunneus* Bloch.

Epinephelus döderleini Franz, Abh. Bayer Akad., 1910, p. 35. Yokohama; Dzushi.

Distrib.—Sagami Sea. (Perhaps identical with *Epinephelus pœcilonotus*).

458. *Epinephelus moara* (Temminck & Schlegel).

Moara.

Serranus moara Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 10, pl. IV, fig. 2. Nagasaki.

Distrib.—Coasts of southern Japan and China.

459. *Epinephelus awoara* (Temminck & Schlegel). (Fig. 114).

Awoara.

Serranus awoara Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 9, pl. III, fig. 2. Nagasaki.

Distrib.—Coasts of southern Japan and China.

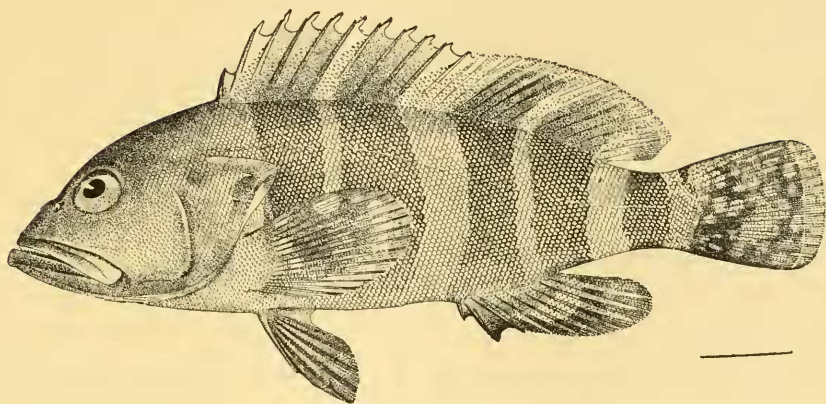


Fig. 114.

460. *Epinephelus septemfasciatus* (Thunberg).

Mahata (Misaki, Sagami); Hakama-ara.

† *Perca septemfasciata* Thunberg, Vet. Acad. Handl. Stockholm, XIV, 1793, p. 56, pl. I. Nagasaki.

~ *Plectropoma susuki* Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 404. Japan.

Serranus octocinctus Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 7, pl. IV. A, fig. 2. Nagasaki.

Distrib.—Southern Japan. (Possibly two species *susuki* and *septemfasciatus* are here included).

461. *Epinephelus tsirimenara* (Temminck & Schlegel). (Fig. 115).

Akahata (Misaki, Sagami); Akaba (Tosa); Akauwo (Nagasaki).

Serranus tsirimenara Temmick & Schlegel, Fauna Japonica, Poiss., 1842, p. 7, pl. IV, A, fig. 3. Japan.

Distrib.—Tōkyō to Nagasaki.

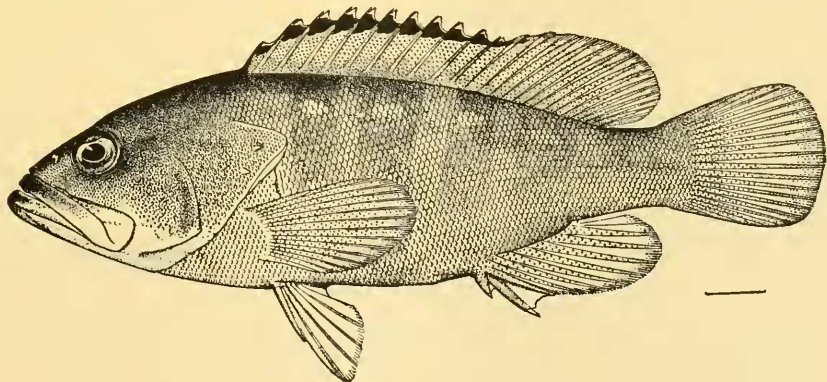


Fig. 115.

462. *Epinephelus cæruleopunctatus* (Bloch).

Shiro-hoshi-hata.

Holocentrus cæruleopunctatus Bloch, Ichthyol., 1797, p. 74, taf. 242. fig. 4.

Distrib.—Tanegashima (Snyder ms.).

Genus *Trisotropis* Gill.*Trisotropis* Gill, Proc. Acad. Nat. Sci. Phila., 1865, p. 104.Type *Johnius guttatus* Bloch & Schneider = *Perca venenosa* Linnæus.463. *Trisotropis dermopterus* (Temminck & Schlegel). (Fig. 116).

Tobi-hata.

Serranus dermopterus Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 10. Nagasaki.

Distrib.—Wakanoura ; Nagasaki ; China.

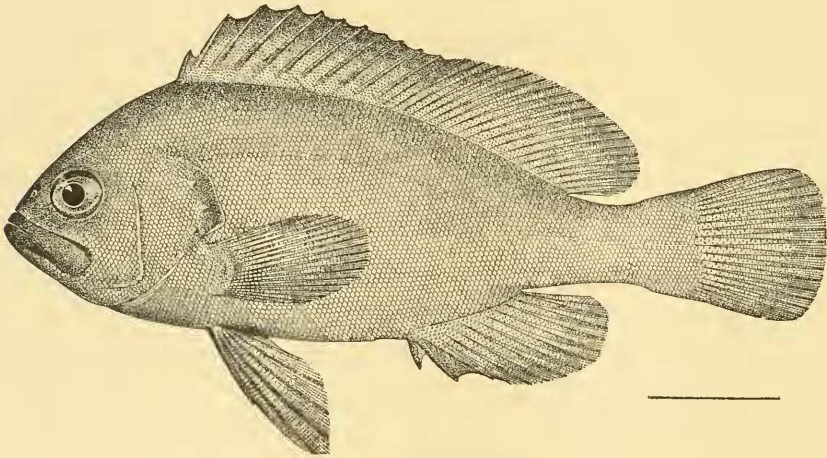


Fig. 116.

Genus *Chelidoperca* Boulenger.*Chelidoperca* Boulenger, Cat. Fish., I, 1895, p. 304.Type *Centropristis hirundinaccus* Cuvier & Valenciennes.464. *Chelidoperca hirundinacea* (Cuvier & Valenciennes).

Hime-kodai.

Centropristis hirundinaccus Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 1831, p. 450. Japan.

Distrib.—Coast of southern Japan and southward.

Genus Sayonara Jordan & Seale.

Sayonara Jordan & Seale, Proc. U. S. Nat. Mus., XXX, 1906, p. 145.

Type *Sayonara satsumæ* Jordan & Seale.

465. Sayonara satsumæ Jordan & Seale. (Fig. 117).

Kasumi-sakuradai.

Sayonara satsumæ Jordan & Seale, Proc. U. S. Nat. Mus., XXX, 1906, p. 145,
with figure. Yamagawa, near Kagoshima.

Sayonara mitsukurii Smith & Pope, Proc. U. S. Nat. Mus., XXXI, 1906, p.
469, with figure. Kagoshima.

Distrib.—Kagoshima.

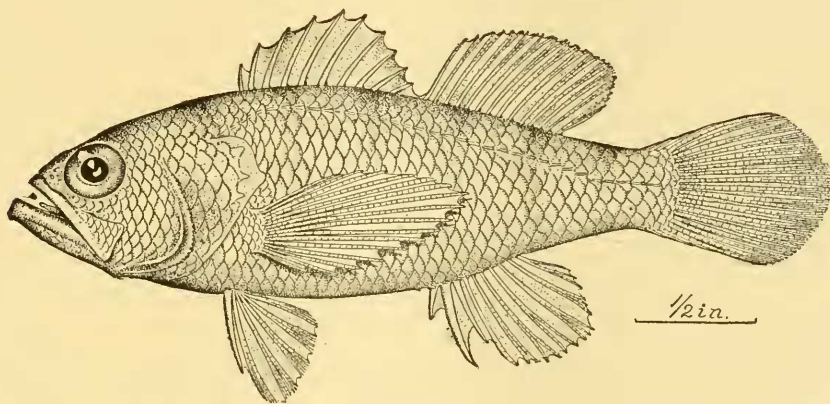


Fig. 117.

Genus Caprodon Temminck & Schlegel.

Caprodon Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 64.

Type *Anthias schlegelii* Günther.

466. Caprodon schlegelii (Günther).

Aka-isagi; Akasagi.

Caprodon Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 64, pl.
XXX. Nagasaki.

Anthias schlegelii Günther, Cat. Fish, I, 1859, p. 93. After Temminck &
Schlegel.

Distrib.—Misaki, Sagami; Nagasaki; Hawaii.

Genus Anthias Bloch.

Anthias Bloch, Ausländische Fische, VI, 1792, p. 97.

Sacura Jordan & Richardson, Proc. U.S. Nat. Mus., XXXVII, 1910, p. 468
(*Anthias margaritaceus* Hilgendorf).

Type *Labrus anthias* Linnæus.

467. *Anthias margaritaceus* Hilgendorf.

Sakuradai; Hanadai.

Anthias margaritaceus Hilgendorf, Sitzb. Ges. Naturf. Fr., 1879, p. 78. Japan.
Distrib.—Coast of Japan.

468. *Anthias pulcher* Döderlein.

Ōgon-sakuradai.

Anthias pulcher Döderlein in Steindachner and Döderlein, Fische Japans, I,
1883, p. 19. Japan.

Distrib.—Fukuura, Sagami Bay (Franz).

Genus *Pseudanthias* Bleeker.

Pseudanthias Bleeker, Poiss. Reunion et Madagascar, Ned. Tijds, Dierk., IV,
1872, p. 156.

Type *Anthias pleurotænia* Bleeker.

469. *Pseudanthias azumanus* Jordan & Richardson.

Aduma-hanadai.

Anthias japonicus Döderlein, Fische Japans, I, 1883, p. 227, pl. III, fig. 2.
Tōkyō. (Name preoccupied by *Anthias japonicus* Bloch, which is
Scolopsis japonica).

Pseudanthias azumanus Jordan & Richardson, Proc. U.S. Nat. Mus., XXXVII,
1910, p. 470. Sagami Bay.

Distrib.—Sagami Bay; Nagasaki.

470. *Pseudanthias elongatus* (Franz).

Naga-hanadai.

Anthias elongatus Franz, Abh. Bayer. Akad., 1910, p. 39, taf. VI, fig. 51.
Yokohama.

Distrib.—Yokohama.

471. *Pseudanthias gracilis* (Franz)

Benten-hanadai.

Anthias gracilis Franz, Abh. Bayer. Akad., 1910, p. 38, taf. VI, fig. 47.
Fukuura; Dzushi.

Distrib.—Sagami Sea.

472. *Pseudanthias nobilis* (Franz).

Kongō-hanadai.

Anthias nobilis Franz, Abh. Bayer. Akad., 1910, p. 38, taf. VI, fig. 44.

Misaki, Sagami.

Distrib.—Sagami Sea.

473. *Pseudanthias venator* Snyder.

Kumaso-hanadai.

Pseudanthias venator Snyder, Proc. U. S. Nat. Mus., XL, 1911, p. 529.

Kagoshima.

Distrib.—Kagoshima.

Genus *Callanthias* Lowe.*Callanthias* Lowe, Proc. Zool. Soc., 1839, p. 76.Type *Callanthias paradisæus* Lowe.**474. *Callanthias japonicus* Franz.**

Shikishima-hanadai.

Callanthias japonicus Franz, Abh. Bayer. Akad., 1910, p. 40, taf. VI, fig. 49.

Aburatsubo, Prov. Sagami.

Distrib.—Sagami Sea.

Genus *Tosana* Smith & Pope.*Tosana* Smith & Pope, Proc. U.S. Nat. Mus., XXXI, 1906, p. 470.Type *Tosana niwæ* Smith & Pope.**475. *Tosana niwæ* Smith & Pope. (Fig. 118)**

Hime-hanadai.

Tosana niwæ Smith & Pope, Proc. U. S. Nat. Mus., XXXI, 1906, p. 470, fig.

4. Urado Bay, Prov. Tosa.

Distrib.—Coast of southern Japan.

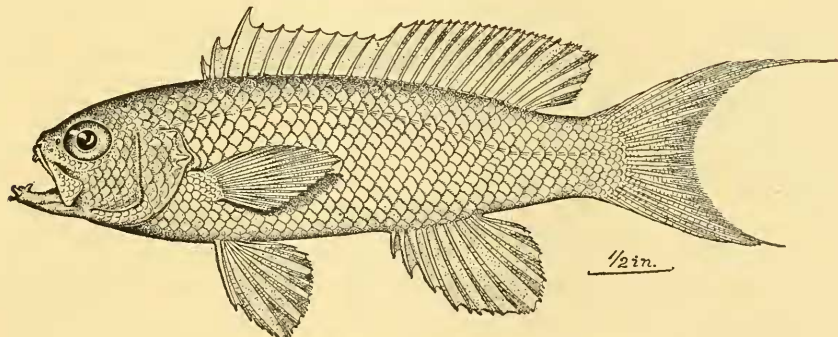


Fig. 118.

Genus *Doderleinia* Steindachner.

Doderleinia Steindachner, Akad. Wiss. Wien, XLVII, 1883, p. 129.

Eteliscus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 355.
(*Anthias berycoides* Hilgendorf).

Type *Doderleinia orientalis* Steindachner & Döderlein.

476. *Doderleinia berycoides* (Hilgendorf).

Aka-Mutsu.

Anthias berycoides Hilgendorf, Sitzb. Nat. Fr., 1878, p. 155. Japan.

Acanthocephalus orientalis Döderlein, Fische Japans, I, 1883, p. 237. Tōkyō.
Distrib.—Tōkyō to Nagasaki.

Genus *Glaucosoma* Temminck & Schlegel.

Glaucosoma Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 62, pl.
LXVII. Nagasaki.

Type *Glaucosoma bürgeri* Richardson.

477. *Glaucosoma bürgeri* Richardson.

Aobadai.

Glaucosoma Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 62, pl.
LXVII. Nagasaki.

Glaucosoma bürgeri Richardson, Voy. of Ereb. & Terror, Fishes, 1846, p. 27.
Nagasaki.

Distrib.—Nagasaki.

Family LOBOTIDÆ.**Genus *Lobotes* Cuvier.**

Lobotes Cuvier, Règne Animal, 2nd ed., II, 1829, p. 177.

Type *Holocentrus surinamensis* Bloch.

478. *Lobotes surinamensis* (Bloch).

Matsudai.

Holocentrus surinamensis Bloch, Ichthyol., VII, 1790, pl. 243. Surinam.

Lobotes crate Cuvier & Valenciennes, Hist. Nat. Poiss., V, 1830, p. 322.
Pondicherry.

Distrib.—All warm seas ; Matsushima

Family LUTIANIDÆ.**Genus Lutianus** Bloch.

Lutianus Bloch, Ichthyol., IV, 1790, p. 107.

Type *Lutianus lutianus* Bloch.

479. Lutianus kasmira (Forskål).

Suji-fuedai.

Sciæna kasmira Forskål, Descr. Anim., 1775, p. 46. Red sea.

Distrib.—Tahiti ; Samoa ; Fiji ; Louisiades ; New Ireland ; Guam ; Marcus I. ;
New Hebrides ; East Indies ; Philippines ; Japan.

480. Lutianus erythropterus Bloch.

Yoko-fuedai.

Lutianus erythropterus Bloch, Ichthyol., 1790, pl. 249. Japan.

Mesoprion annularis Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p.
484, III, p. 497. Java.

Distrib.—Indian Ocean ; Red Sea ; Chinese and Japanese Seas.

481. Lutianus russelli (Bleeker). (Fig. 119).

Kuro-hoshi-fuedai.

Mesoprion russelli Bleeker, Verh. Bat. Gen. Kunst. Wet., XXII, Perc., 1849,
p. 41. Batavia.

Lutianus nishikawæ Smith & Pope, Proc. U. S. Nat. Mus., XXXI, 1907, p.
474. Hamashima.

Distrib.—Samoa Is. ; East Indies ; Philippines ; Japan.

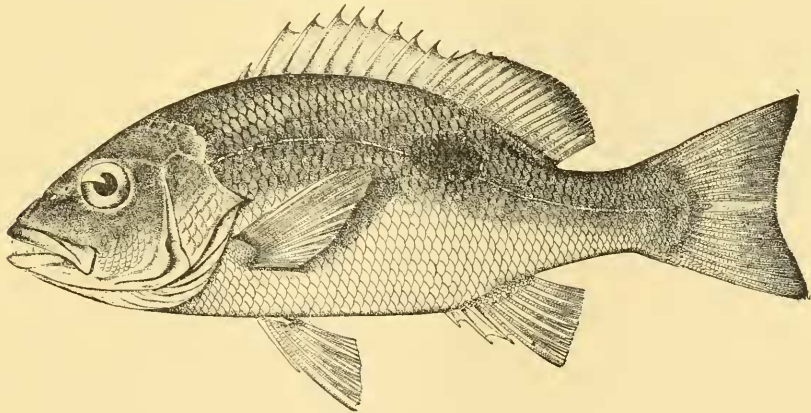


Fig. 119.

482. *Lutianus rivulatus* (Cuvier & Valenciennes).

Fuyedai.

DiaCOPE rivulata Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 414, pl. 38. Pondicherry.

Distrib.—South Seas ; southern Japan ; Tanegashima.

483. *Lutianus vaiigiensis* (Quoy & Gaimard). (Fig. 120).

Oki-fuyedai.

DiaCOPE vaiigiensis Quoy & Gaimard, Voy. Uranie, 1824, p. 307. Waigiu.

DiaCOPE marginata, Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 425. Pondicherry.

Distrib.—New Guinea ; East Indies ; Philippines ; Japan.

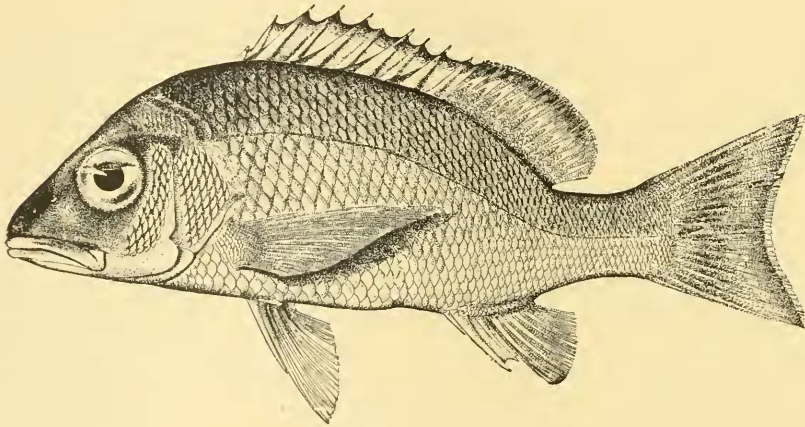


Fig. 120.

484. *Lutianus vitta* (Quoy & Gaimard). (Fig. 121).

Yokc-suji-fuyedai ; Kinse'-isaki.

Seranus vitta Quoy & Gaimard, Voy. Uranie, II, 1824, p. 315, pl. 58, fig. 3. Waigiu.

Distrib.—Waigiu ; Louisiades ; East Indies ; Philippines ; Japan.

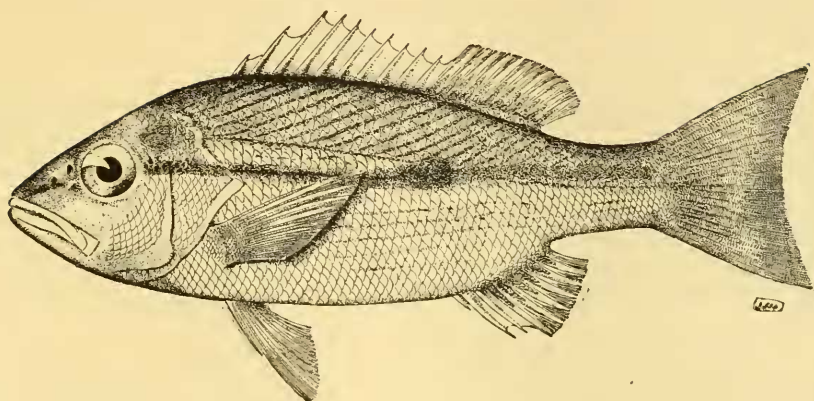


Fig. 121.

Genus *Aphareus* Cuvier & Valenciennes.

Aphareus Cuvier & Valenciennes, Hist. Nat. Poiss., VI, 1830, p. 485.

Type *Aphareus caeruleus* Cuvier & Valenciennes = *Aphareus furcatus* (Lacépède).

485. *Aphareus furcatus* (Lacépède). (Fig. 122).

Ishi-fuyedai.

Labrus furcatus Lacépède, Hist. Nat. Poiss., III, 1801, pp. 424, 477, pl. 21, fig. 1. Ile de France.

Distrib.—Isle de France ; Tahiti ; East Indies ; Japan.

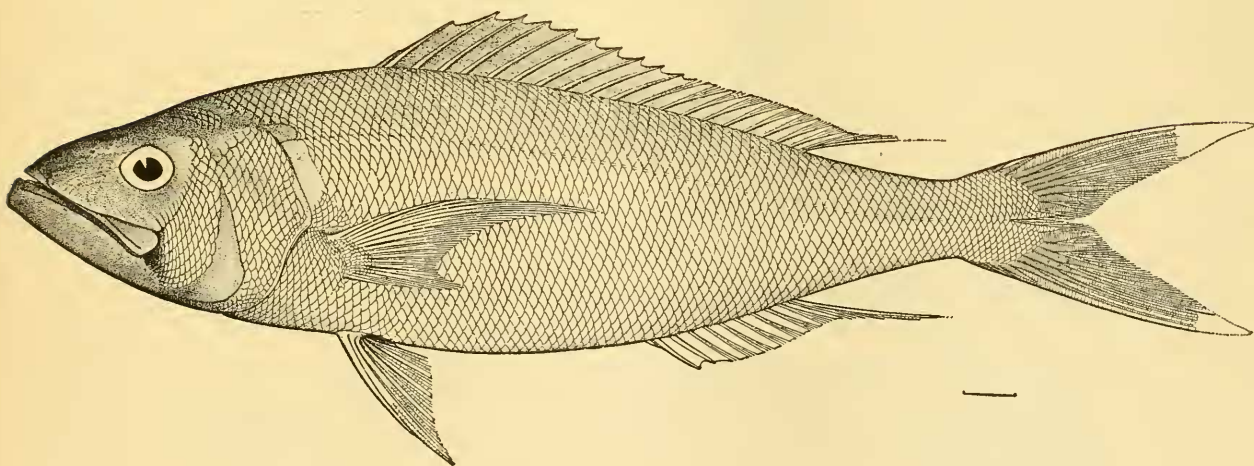


Fig. 122.

Genus *Pristipomoides* Bleeker.

Pristipomoides Bleeker, Tijds. Ned., Ind., III, 1852, p. 574.

Chætopterus Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 78.
(*Chætopterus sieboldi* Bleeker. The generic name *Chætopterus* preoccupied).

Type *Pristipomoides typus* Bleeker.

486. *Pristipomoides sparus* (Temminck & Schlegel). (Fig. 123).

Nagasaki-fuyedai.

? *Labrus thunbergi* Lacépède, Hist. Nat. Poiss., IV, 1803, p. 467. Nagasaki.

Diacope sparus Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 14.
Nagasaki.

Distrib.—Southern Japan.

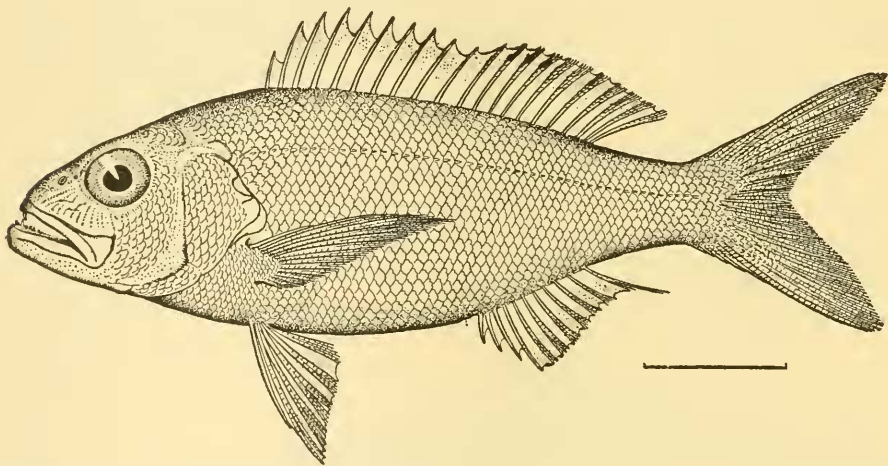


Fig. 123.

487. *Pristipomoides sieboldii* (Bleeker). (Fig. 124).

Himedai.

Chætopterus Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 78.
Nagasaki.

Aprion sieboldi Bleeker, Acad. Roy. Neer. Sci., 1859, p. 7. Japan.

Chætopterus dubius Günther, Cat. Fish., I, 1859, p. 385. After Temminck & Schlegel.

Distrib.—Tōkyō to Nagasaki.

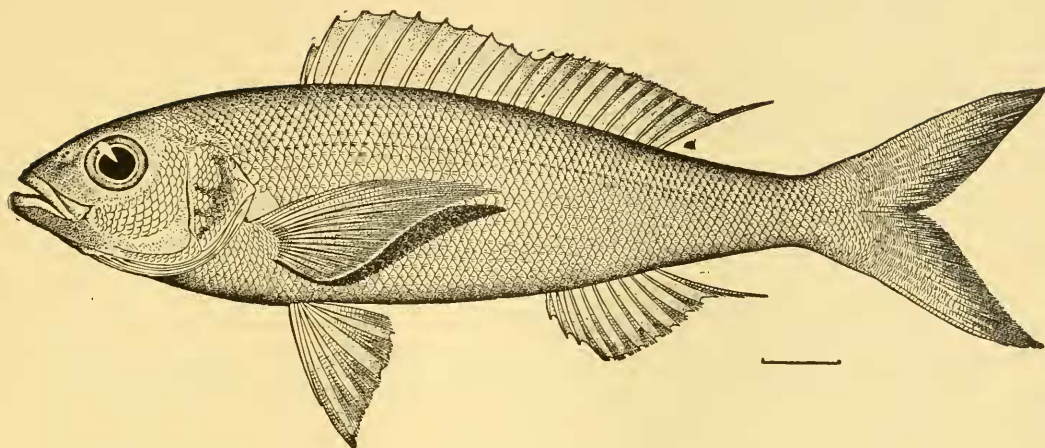


Fig. 124.

Genus *Etelis* Cuvier & Valenciennes.*Etelis* Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 127.Type *Etelis carbunculus* Cuvier & Valenciennes.**488. *Etelis carbunculus*** Cuvier & Valenciennes.

Hamadai.

Etelis carbunculus Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1828, p. 127.

Japan.

Distrib.—Seychelles ; Isle de France ; Tōkyō to Nagasaki.

Family THERAPONIDÆ.**Genus *Therapon*** Cuvier.*Therapon* Cuvier, Règne Animal, 1st ed., 1817, p. 42 (Misprint for *Therapon*).Type *Holocentrus sercus* Bloch.**489. *Therapon quadrilineatus*** (Bloch).

Yocuji-shimaisagi.

Therapon quadrilineatus Bloch, Ichthyol., IV, p. 82, pl. 238, fig. 2. Orient.

Distrib.—Tōkyō to Formosa ; Philippines.

490. *Therapon oxyrhynchus* Temminck & Schlegel.

Shimaisagi.

Therapon oxyrhynchus Temminck & Schlegel, Fauna Japonica, Poiss., 1842,
p. 16, pl. VI, fig. 3. Nagasaki.

Distrib.—Tōkyō to Nagasaki ; Fiji.

491. *Therapon servus* Bloch.

Yagata-isagi.

Holocentrus servus Bloch, Ichthyol., 1797, taf. 238, fig. 1. Japan.

Distrib.—Coast of Asia, north to Japan.

Family BANJOSIDÆ.**Genus *Banjos* Bleeker.***Anoplus* Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 17. The generic name *Anoplus* preoccupied.*Banjos* Bleeker, Enum. Poiss., Verh. kong. Akad. Amsterd., XVIII, 1879, p. 7.Type *Anoplus banjos* Richardson.**492. *Banjos banjos* (Richardson).**

Chōsen-bakama (Nagasaki); Banzaidai.

Anoplus Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 17, pl. VIII, Nagasaki. No specific name.*Anoplus banjos* Richardson, Ichth. China., 1846, p. 236. (After Temminck & Schlegel).

Distrib.—China ; Japan ; Fusan, Korea.

Family HÆMULIDÆ.**Genus *Parapristipoma* Bleeker.***Parapristipoma* Bleeker, Arch. Neerl. Soc. Holl. Sci. Harlem., VIII, 1872, p. 4.Type *Perca trilineata* Thunberg.**493. *Parapristipoma trilineatum* (Thunberg).**

Isagi (Tōkyō); Issaki; Isegi (Tosa).

Perca trilineata Thunberg, Beskr. 2 Nya Fiske, Kongl. Vet. Akad. Nya. Handl., XIV, 1793, p. 55, taf. 1, fig. 2. Nagasaki.*Diagramma japonicum* Cuvier & Valenciennes, Hist. Nat. Poiss., V, 1830, p. 288. Japan.

Distrib.—Tōkyō to Nagasaki.

Genus *Plectorhynchus* Lacépède.*Plectorhynchus* Lacépède, Hist. Nat. Poiss., VIII, 1802, p. 222.Type *Plectorhynchus chætodontoides* Lacépède.

494. Plectorhynchus pictus (Thunberg).

Korodai.

Perca picta Thunberg, Nya Handl., XIII, 1793, p. 141, pl. 5, fig. 1. Nagasaki.*Perca pertusa* Thunberg, Nya Handl. Stockh., XIV, 1793, p. 198, pl. VII, fig. 1. Nagasaki.*Diagramma punctatum* (Ehrenberg) Rüppell, Atlas Reise nörd. Afrika, 1828, p. 126, pl. 32, fig. 2. Northern Red Sea.*Diagramma thunbergii* Cuvier & Valenciennes, Hist. Nat. Poiss., V, 1830, p. 308. Locality uncertain.*Diagramma pacilopteron* Cuvier & Valenciennes, Hist. Nat. Poiss., V, 1830, p. 314. Pondicherry.

Distrib.—New Guinea ; Fiji ; East Indies ; Philippines ; Japan.

495. Plectorhynchus cinctus (Temminck & Schlegel).

Koshōdai.

Diagramma cinctum Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 61, pl. XXVI, fig. 1. Nagasaki.*Diagramma aporognathus* Regan, Ann. Mag. Nat. Hist., 1905, p. 264. Inland Sea, Japan.

Distrib.—Tōkyō to Nagasaki.

Genus Hapalogenys Richardson.*Hapalogenys* Richardson, Ann. Mag. Nat. Hist., 1844, XIII, p. 463.Type *Hapalogenys maculatus* Richardson = *Pogonias nigripinnis* Temminck & Schlegel.**496. Hapalogenys mucronatus (Eydoux & Souleyet).**

Higedai.

Pristipoma mucronatum Eydoux & Souleyet, Voy. de la Bonite, Zool., 1841, p. 161, pl. II, fig. 1.

Distrib.—China, Japan.

497. Hapalogenys nigripinnis (Temminck & Schlegel). (Fig. 125).

Setodai.

Pogonias nigripinnis Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 59, pl. XXV. Nagasaki.

Hapalogenys maculatus Richardson, Ann. Mag. Nat. Hist., XIII, 1844, p. 463. Canton.

Hapalogenys aculeatus Nyström, Bihang Till K. Svensk. Vet. Akad. Handlingar, Bd. 13, Afd. IV, no. 4, 1887, p. 10. Nagasaki.

Hapalogenys kishinouyei Smith & Pope, Proc. U.S. Nat. Mus., XXXI, 1906, p. 476, fig. 6. Urado, Kōchi.

Distrib.—China ; Nagasaki ; Tosa Sea

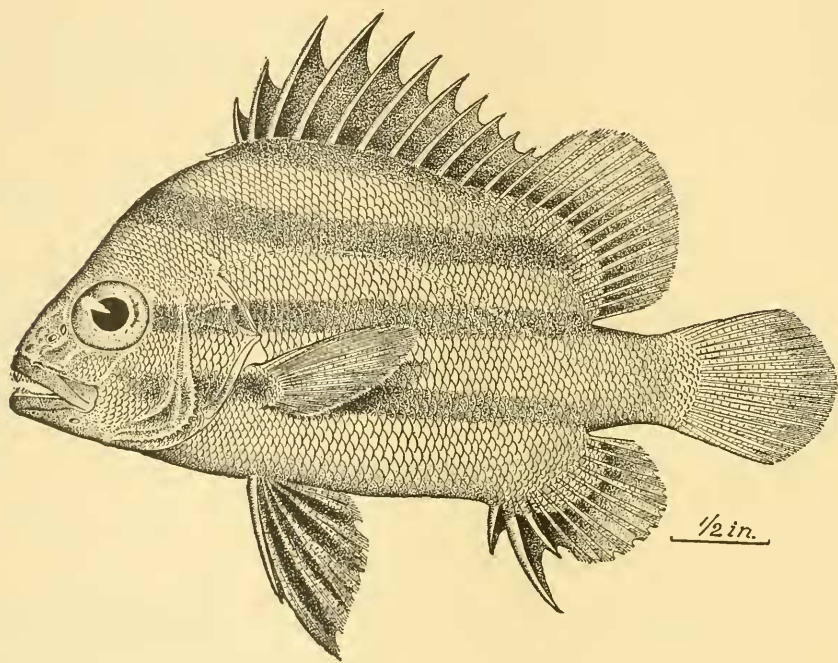


Fig. 125.

Genus *Scolopsis* Cuvier.

Scolopsis Cuvier, Règne Animal, 1st ed., 1817, p. 280. (Le Kurite de Russell).

Scolopsides Cuvier & Valenciennes, Hist. Nat. Poiss., V, 1830, p. 327.

Type *Scolopsides kurita* Cuvier & Valenciennes.

498. *Scolopsis inermis* Temminck & Schlegel.

Tamagashira.

Scolopsis inermis Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 63, pl. XXVIII, fig. 1. Nagasaki.

Heterognathodon döderleini, Ishikawa, Proc. Imp. Mus., Tokyo, I, 1904, p. 10,
pl. IV. Kagoshima.
Distrib.—Tōkyō to Kagoshima.

Family SPARIDÆ.

Genus *Euthyopteroma* Fowler.

Euthyopteroma Fowler, Journ. Ac. Nat. Sci. Phila., 1904, p. 527.
Type *Dentex blochii* Bleeker = *Sparus japonicus* Bloch.

499. *Euthyopteroma virgatum* (Houttuyn).

Itoyori.

Sparus virgatus Houttuyn, Beschriev. van eenig. Japansch. Visschen Holl.
Maat. Wet. Haarl., XXII, 1782, p. 3. Nagasaki.

Sparus sinensis Lacépède, Hist. Nat. Poiss., IV, 1803, p. 6.

Dentex setigerus Cuvier & Valenciennes, Hist. Nat. Poiss., VI, 1830, p. 253.
Japan.

Distrib.—Tōkyō to Formosa.

500. *Euthyopteroma bathybius* (Snyder).

Soko-itoyori.

Nemipterus bathybius Snyder, Proc. U. S. Nat. Mus., XL, 1911, p. 532.
Kagoshima.

Distrib.—Kagoshima.

Genus *Gymnocranius* Klunzinger.

Gymnocranius Klunzinger, Fische Rothen Meeres, Verh. Zool. Botan.
Gesellsch. Wien, 1870, p. 764.

Type *Dentex riculatus* Rüppell.

501. *Gymnocranius griseus* (Temminck & Schlegel).

Ōmedai; Meichi-dai.

Dentex griseus Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 72,
pl. XXXVI. Nagasaki.

Distrib.—Tōkyō; Wakanoura; Nagasaki.

Genus *Sparus* Linnæus.

Sparus Linnæus, Syst. Nat., 10th ed., 1758, p. 277.

Type *Sparus aurita* Linnæus.

502. Sparus aries (Temminck & Schlegel).

Hedai (Tōkyō); Hyōdai (Kōchi ; Nagasaki).

? *Sparus sarba* Forskål, Descr. Anim., 1775, p. 31. Red Sea.*Chrysophrys aries* Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 68, pl. XXXI. Nagasaki.

Distrib.—China ; Japan.

503. Sparus latus Houttuyn.

Kurodai; Machinu; Chin; Kaidso (young); Chinu (Tosa); Hichinu (Uwajima); Shiwochinu (Prov. Sanuki); Shirotai (Prov. Tōtōmi).

Sparus latus Houttuyn, Holl. Maats. Wet. Haarlem., XX, Deel. 2, 1782, p. 311-346. Nagasaki.*Chrysophrys schlegelii* Bleeker, Japan, 1854, p. 400. Nagasaki.*Sparus chrysopterus* Kishinouye, Zool. Mag., XIX, 1907, p. 327. Shikoku ; Chūgoku.

Distrib.—Southern Hokkaidō to Riukiu.

504. Sparus swinhonis (Günther).

Morokoshi-dai.

Chrysophrys swinhonis Günther, Ann. Mag. Nat. Hist., 1874, p. 154. Chifu, China.

Distrib.—China ; Tōkyō to Nagasaki.

Genus Lethrinus Cuvier.*Lethrinus* Cuvier, Règne Anim., 2nd ed., 1829.Type *Sparus chlororhynchus* Bloch & Schneider.**505. Lethrinus hæmatopterus** Temminck & Schlegel.

Fuefukidai (Misaki, Sagami); Kuchibidai (Tosa).

Lethrinus hæmatopterus Temminck & Schlegel, Fauna Japonica., Poiss., 1844, p. 74, pl. XXXVIII. Nagasaki.

Distrib.—Japan.

506. Lethrinus nematacanthus Bleeker.

Ito-fuefuki.

Lethrinus nematacanthus Bleeker, Japan, Nat. Tijd. Ned. Ind., VI, 1854, p. 403. Nagasaki.

Distrib.—Tōkyō to Formosa ; Louisiade Archipelago.

507. *Lethrinus chærorhynchus* (Bloch & Schneider).

Hama-fuefuki.

Sparus chærorhynchus Bloch & Schneider, Syst. Ichth., 1801, p. 278. Japan.

Lethrinus Güntheri Bleeker. Archiv. Neerl. Soc. Holl. Sciences. Harlem, VIII, 1872, p. 153. Nagasaki.

Distrib.—Nagasaki.

Genus *Pagrosomus* Gill.

Pagrosomus Gill, Mem. Nat. Acad. Washington, VI, 1893, p. 97.

Sparosomus Gill, Mem. Nat. Acad. Sci. Washington, VI, 1893, pp. 116, 123 (*auratus*).

Type *Labrus auratus* Forster = *Chrysophrys unicolor* Quoy & Gaimard.

508. *Pagrosomus major* (Temminck & Schlegel).

Madai ; Ōdai.

Chrysophrys major Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 71, pl. XXXV. Nagasaki.

Pagrus ruber Döderlein, Fische Japans, II, p. 20. Japan.

Pagrus arthurinus Jordan & Starks, Proc. U.S. Nat. Mus., XXXI, 1901, p. 517. Port Arthur, Manchuria.

Pagrus unicolor Regan, Ann. Mag. Nat. Hist., XVI, 1905, p. 20. Inland Sea of Japan. Not of Quoy & Gaimard.

Distrib.—China ; Japan.

Genus *Taius* Jordan & Thompson.

Taius Jordan & Thompson, Proc. U. S. Nat. Mus., XLI, 1911, p. 570.

Type *Chrysophrys tumifrons* Temminck & Schlegel.

509. *Taius tumifrons* (Temminck & Schlegel). (Fig. 126).

Kidai ; Kodai ; Makodai ; Benikodai ; Renkodai ; Kinkodai ; Kindai ; Akame ; Hanjiro ; Ōbana ; Hanaore ; Metsuke.

Chrysophrys tumifrons Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 70, pl. XXXIV. Nagasaki.

Deutx hypsclosoma Bleeker, Fauna Ichth. Jap., 1854, p. 8. Nagasaki.

Distrib.—Tōkyō to Formosa.

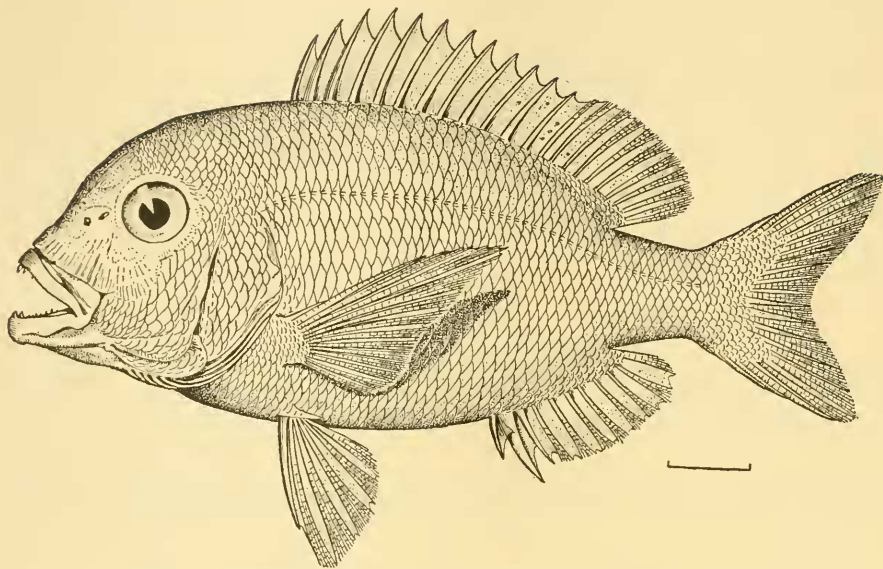


Fig. 126.

Genus *Evynnis* Jordan & Thompson.

Evynnis Jordan & Thompson, Proc. U. S. Nat. Mus., XLI, 1911, p. 573.

Type *Sparus cardinalis* Lacépède.

510. *Evynnis cardinalis* (Lacépède).

Chidai; Hirekodai; Hirenaga; Chikodai; Kundai; Hanadai; Maaguro;
Oshitsukedai; Kasugodai.

Sparus cardinalis Lacépède, Hist. Nat. Poiss., IV, 1803, p. 141. Japan.

Distrib.—Chinese and Japanese Seas.

Family KYPHOSIÆ.

Genus *Girella* Gray.

Girella Gray, Illustrations of Indian Zoolog., about 1835.

Melanichthys Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 75, pl.
XXXIX. (*Crenidens melanichthys* Richardson).

Type *Girella punctata* Gray.

511. *Girella punctata* Gray. (Fig. 127).

Mezina.

Girella punctata, Gray, Illustration of Indian Zoology, 1830-1835, pl. 98, fig. 34. Canton.

Distrib.—China ; Japan.

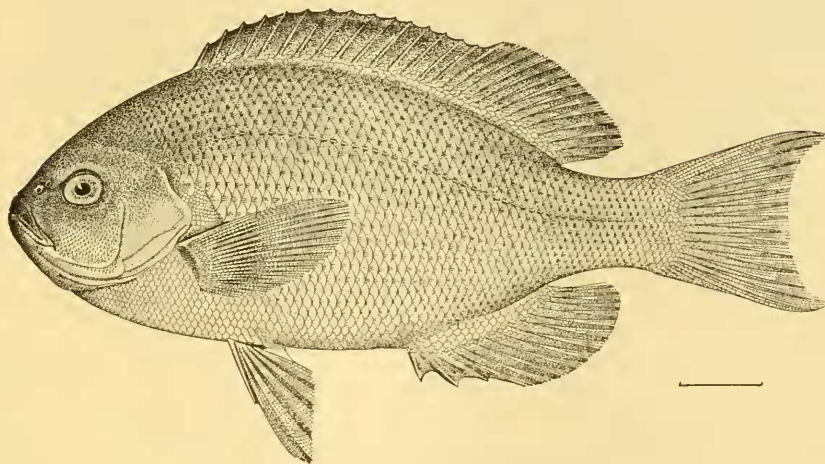


Fig. 127.

512. *Girella melanichthys* (Richardson).

Kuro-mezina.

Melanichthys Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 75, pl. XXXIX. Nagasaki.

? *Crenidens leonina* Richardson, Ichth. China, 1846, p. 242. China Sea. (Maybe *G. mekina* ; description incomplete).

Crenidens melanichthys Richardson, Ichth. China, 1846, p. 243. (After Temminck & Schlegel).

Melanichthys crenidens Bleeker, Nieuwe Nalez. Verh. Bat. Gen., XXVI, 1857, p. 20 (= *Crenidens melanichthys* Richardson). Japan ; China.

Distrib.—China ; Wakanoura.

513. *Girella mekina* Jordan & Starks. (Fig. 128).

Okina-mezina.

Girella mekina Jordan & Starks, Proc. U.S. Nat. Mus., XXXIV, 1907, p. 495, fig. 3. Naha, Okinawa.

Distrib.—Misaki, Sagami (Snyder).

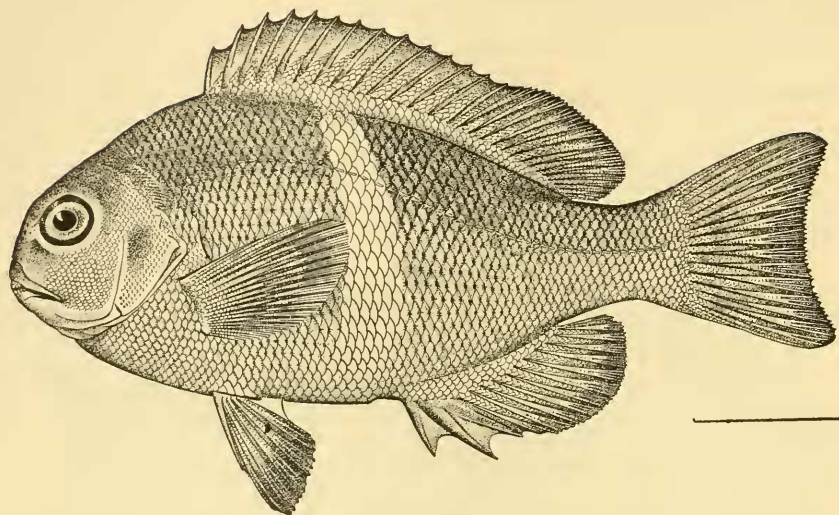


Fig. 128.

Genus *Kyphosus* Lacépède.

Kyphosus Lacépède, Hist. Nat. Poiss., III, 1802, p. 114.

Type *Kyphosus bigibbus* Lacépède = *Xyster fuscus* Lacépède.

514. *Kyphosus cinerascens* (Forskål).

Tenjiku-isagi.

Sciæna cinerascens Forskål, Desc. Anim., Pisces, 1775, p. 53. Red Sea.

Distrib.—East Indies north to Japan.

515. *Kyphosus lembus* (Cuvier & Valenciennes).

Gokuraku-mezina.

Pimblepterus lembus Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 1831,
p. 269. Vanicolo.

Distrib.—East Indies, north to Tōkyō.

Family GERRIDÆ.

Genus *Xystæma* Jordan & Evermann.

Xystæma Jordan & Evermann, Proc. Cal. Ac. Sci., 1895, p. 471.

Type *Mugil cinereus* Walbaum.

516. *Xystæma erythroum* (Bloch). (Fig. 129).

Kurosagi; Amagi (Kōchi, Tosa); Sizyūkara.

Sparus erythroum Bloch, Ichth., VIII, 1790, p. 23, pl. CCLXI. Japan.*Gerres equula* Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 76, pl. XL, fig. 1. Nagasaki.

Distrib.—Southern Japan; China.

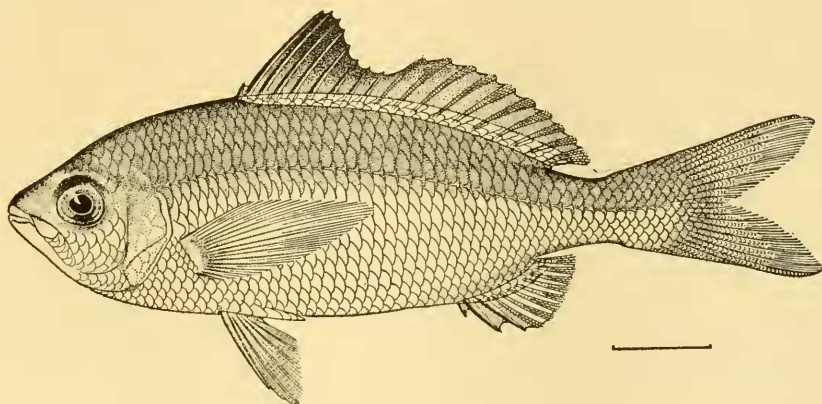


Fig. 129.

Genus *Gerreomorpha* Alleyne & Macleay.*Gerreomorpha* Alleyne & Macleay, Proc. Linn. Soc. N. S. W., I, 1876, p. 274.Type *Gerreomorpha rostrata* Alleyne & Macleay.517. *Gerreomorpha japonica* (Bleeker). (Fig. 130).

Daimyō-sagi.

Gerres japonicus Bleeker, Nieuw Nalez., Japan, 1857, p. 93, pl. V. Nagasaki.

Distrib.—Bay of Wakanoura and southward to the Riukiu Islands.

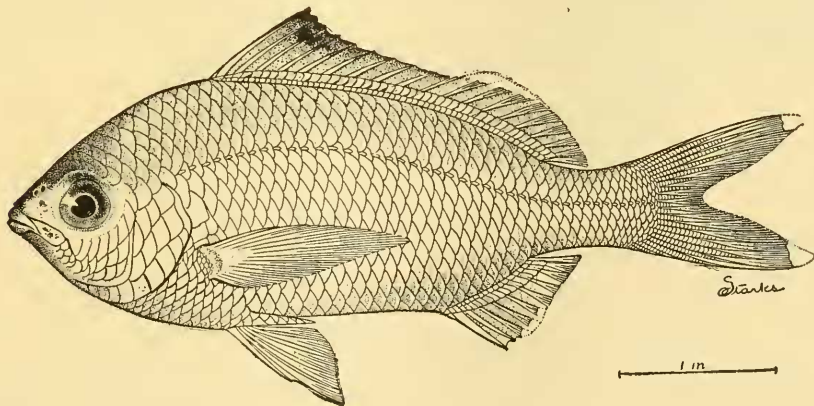


Fig. 130.

Family SCIÆNIDÆ.**Genus *Sciæna* (Artedi) Linnæus.**

Sciæna part Artedi, Generi, 1738.

Sciæna Linnæus, Syst. Nat., 10th ed., 1758, p. 289.

Type *Sciæna umbra* Linnæus.

518. *Sciæna albiflora* (Richardson). (Fig. 131).

Nibe, Guchi (Tosa); **Kuchi** (Wakanoura).

Corvina albiflora Richardson, Ichth. Chin., 1846, p. 226. Canton.

Corvina cuja Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 58. Nagasaki. (Not *Bola cuja* Hamilton, a species from India).

Pseudotolithus mitsukurii Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 356, pl. XIII. Bay of Tōkyō.

Distrib.—East coast and Inland Sea of Japan; Ōsaka; Matsushima; Fusan; Chemulpo; China.

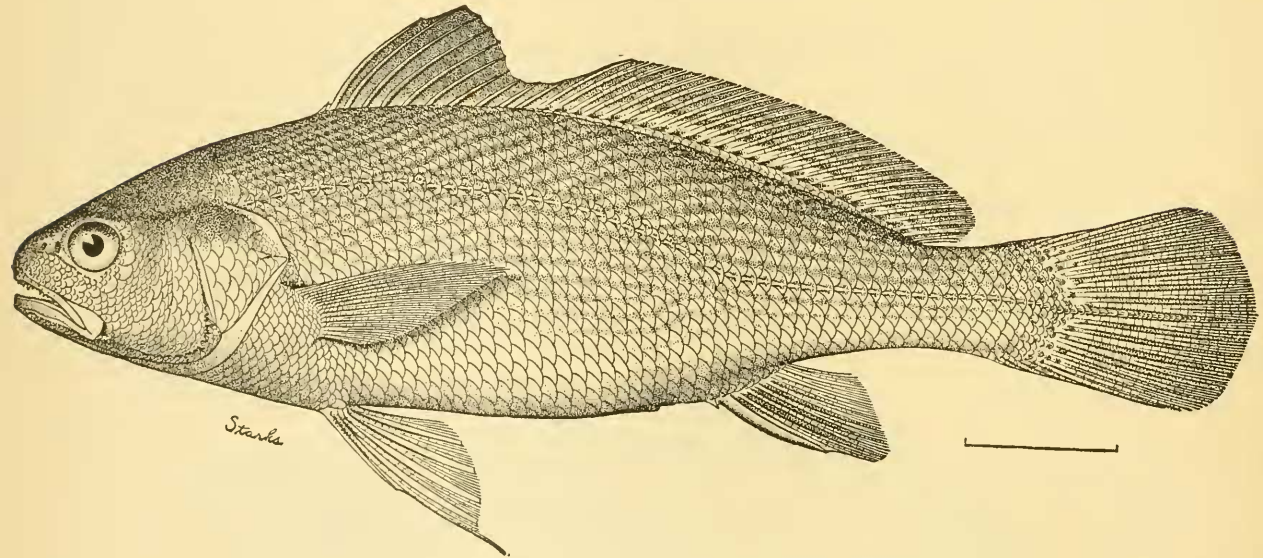


Fig. 131.

519. *Sciæna yeddoensis* Döderlein.

Shirokane-guchi.

? *Sparus argentatus* Houttuyn, Act. Haarlem, XX, pt. 2, 1782, p. 320. Nagasaki.

Sciæna bleekeri Steindachner & Döderlein, Fische Japans, II, 1883, p. 33. Not of Day.

Corvina yeddoënsis Döderlein, Ms., Denkschr. k.k. Akad. Wiss. Wien, XLVIII, 1883, p. 33. Tōkyō.

Distrib.—Southern Japan to India.

520. *Sciæna schlegeli* (Bleeker).

Ishimochi.

Pseudosciæna schlegeli Bleeker, Verh. Kon. Akad. Wet. Amsterdam., XVIII, 1879, p. 9. Nagasaki.

Distrib.—Southern Japan.

521. *Sciæna nibe* Jordan & Thompson.

Hama-nibe.

Sciæna nibe Jordan & Thompson, Proc. U. S. Nat. Mus., XXXIX, 1911, p. 258, fig. 4. Wakanoura.

Distrib.—East coast of southern Japan.

522. *Sciæna japonica* Temminck & Schlegel.

Sciæna japonica Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 58, pl. XXIV, fig. 1. Nagasaki.

Distrib.—Fusan, Korea and Southward.

Family ERYTHRICHTHYIDÆ.

Genus Erythrichthys Temminck & Schlegel.

Erythrichthys Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 117.

Type *Erythrichthys schlegelii* Bleeker.

523. *Erythrichthys schlegelii* Bleeker.

Chibiki.

Erythrichthys Temminck & Schlegel, Fauna Jap., Poiss., 1845, p. 117, p. LXIII, fig. 1. Nagasaki.

Erythrichtys schlegelii Bleeker, Günther, Cat. Fish., I, 1859, p. 395. (After Temminck & Schlegel).

Distrib.—Nagasaki to Tōkyō.

Family OPLEGNATHIDÆ.

Genus *Oplegnathus* Richardson.

Oplegnathus Richardson, Proc. Zool. Soc. Lond., 1840, p. 27.

Scarodon Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 89. (*Scarodon fasciatus* Temminck & Schlegel).

Type *Oplegnathus conwayii* Richardson.

524. *Oplegnathus fasciatus* (Temminck & Schlegel).

Ishidai (Tōkyō; Misaki, Sagami); Shimayokodai; Yokoshimadai; Shimadai; Kōrō (Tosa).

Poisson Perroquet Noir Tilesius, Krusenstern's Reise, 1809, pl. LII, fig. 2. Near Nagasaki.

Scarodon fasciatus Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 89, pl. XLVI, figs. 1. 2. Nagasaki.

Hoplognathus krusensterni Günther, Zool. Record, V, 1869, p. 146. Substitute for *H. fasciatus*, supposed to be preoccupied by *H. fasciatus* Krøyer (Nat. Tyds. N. R., I, 1845, p. 213), a synonym of the Peruvian species, *Oplegnathus insignis*.

Distrib.—Aomori to Nagasaki.

525. *Oplegnathus punctatus* (Temminck & Schlegel).

Ishigakidai (Misaki, Sagami); Kikkōbisha; Monkōrō (Tosa).

Scarodon punctatus Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 91. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

Family HISTIOPTERIDÆ.

Genus *Evistias* Jordan.

Evistias Jordan, Proc. U. S. Nat. Mus., XXXII, 1907, p. 237.

Type *Histiopterus acutirostris* Temminck & Schlegel.

526. *Evistias acutirostris* (Temminck & Schlegel).

Tengudai.

Histiopaterus acutirostris Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 88. Nagasaki.

Distrib.—Southern Japan, north to Tōkyō.

Genus *Histiopaterus* Temminck & Schlegel.*Histiopaterus* Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 86.Type *Histiopaterus typus* Temminck & Schlegel.**527. *Histiopaterus typus* Temminck & Schlegel.**

Kawabisha.

Histiopaterus typus Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 86, pl. XLV. Nagasaki.

Distrib.—Southern Japan, north to Tōkyō.

Genus *Quinquarius* Jordan.*Pentaceros* Cuvier & Valenciennes, Hist. Nat. Poiss., III, 1829, p. 30. (*Pentaceros capensis* Cuvier & Valenciennes. Not of Schultze, Verh. Seest. 1760, p. 50, a genus of Starfishes).*Quinquarius* Jordan, Proc. U. S. Nat. Mus., XXXII, 1907, p. 238.Type *Pentaceros japonicus* Döderlein.**528. *Quinquarius japonicus* (Döderlein).**

Tsubodai.

Pentaceros japonicus Döderlein, Fische Japans, II, 1882, p. 8, pl. V, figs. 1, 2. Tōkyō.

Distrib.—Southern Japan.

Family MULLIDÆ.**Genus *Upeneoides* Bleeker.***Upeneoides* Bleeker, Percoiden, 1849, p. 63.Type *Mullus vittatus* Forskål.**529. *Upeneoides bensasi* (Temminck & Schlegel). (Fig. 132).**

Himeji (Misaki, Sagami), Himechi (Wakayama), Himeichi (Tosa), Benisashi (Nagasaki).

Mullus bensasi Bleeker, Verh. Bat. Gen., XXVI, 1854, p. 71. Nagasaki.

Upeneoides tokiensis Steindachner & Döderlein, Fische Japans, II, 1883, p. 22. Tōkyō.

Distrib.—Coasts of Japan, southward.

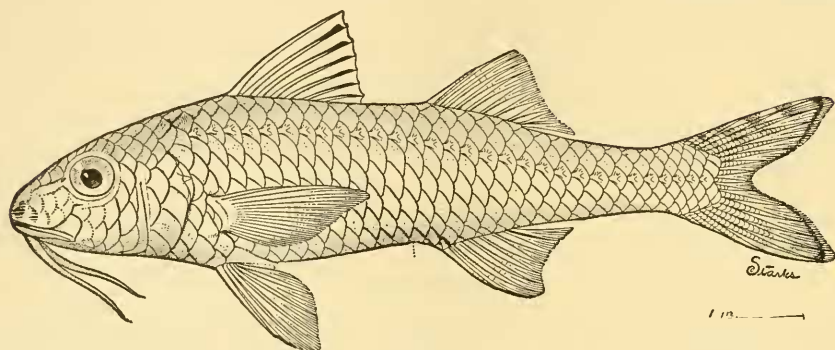


Fig. 132.

530. *Upeneoides subvittatus* (Temminck & Schlegel).

Yoko-himeji.

Mullus subvittatus Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 30. Nagasaki.

Distrib.—Southern Japan and China.

Genus *Mulloid*es Bleeker.

*Mulloid*es Bleeker, Percoiden, Sept. 1848, in Verh. Bat. Gen., XXII, 1849.

Type *Mullus flavolineatus* Lacépède.

531. *Mulloid*es japonicus (Houttuyn).

Aka-himeji.

Mullus japonicus Houttuyn, Mém. Harl., XX, 1782, p. 334. Nagasaki.

Distrib.—Coasts of southern Japan.

Genus *Upeneus* Cuvier.

Upeneus Cuvier, Règne Animal, 2d ed., 1829, p. 157.

Type *Mullus bifasciatus* Lacépède.

532. *Upeneus chrysopleuron* (Temminck & Schlegel).

Umihigoi.

Mullus chrysopleuron Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 29, pl. XII, fig. 1. Nagasaki.

Upeneus dubius Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 30, pl. XI, fig. 3. Nagasaki.

Distrib.—Coasts of southern Japan and China.

533. *Upeneus spilurus* Bleeker.

Okina-himeji.

Upeneus spilurus Bleeker, Fauna, Ichth. Jap., 1854, p. 395. Nagasaki.

Distrib.—Southern Japan.

534. *Upeneus pleurospilos* Bleeker.

Takasago-himeji.

Upeneus pleurospilos Bleeker, Natur. Tyds. Nederl. Ind., IV, 1853, p. 110. Amboyna.

Distrib.—East Indies, north to Nagasaki.

535. *Upeneus ischyrys* (Snyder). (Fig. 133).

Hōrai-uwo.

Pseudupeneus ischyrys Snyder, Proc. U.S. Nat. Mus., XXXII, 1907, p. 90, fig. 2. Tōkyō.

Distrib.—Bay of Tōkyō.

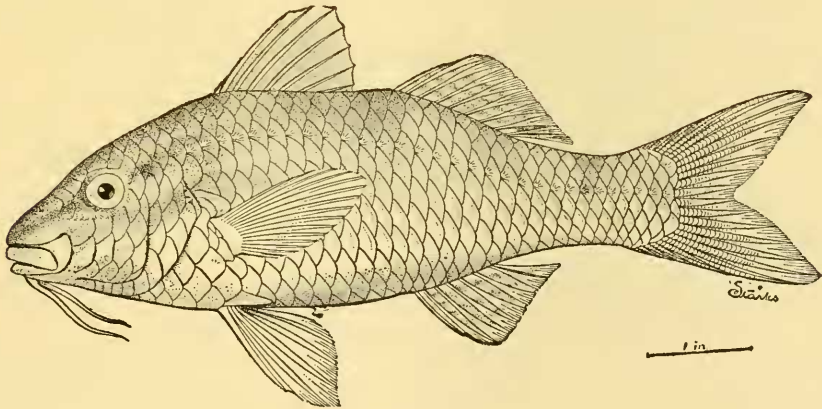


Fig. 133.

536. *Upeneus sulphureus* Cuvier & Valenciennes.

Kohaku-himeji.

Upeneus sulphureus Cuvier & Valenciennes, Hist. Nat. Poiss., III, 1829, p. 450. Antjer.

Distrib.—East Indies, north to Nagasaki.

537. *Upeneus tragula* Richardson.

Yome-himeji.

Upeneus tragula Richardson, Ichth. China, 1846, p. 220. Canton.*Upeneoides kiusinana* Steindachner & Döderlein, Fisch. Japans, II, 1883, p. 22.
Kagoshima.

Distrib.—East Indies, north to southern Japan.

Family APLODACTYLIDÆ.**Genus *Goniistius* Gill.***Goniistius* Gill, Proc. Acad. Nat. Sci. Phila., 1862, p. 120.Type *Cheilodactylus zonatus* Cuvier & Valenciennes.**538. *Goniistius zonatus* Cuvier & Valenciennes. (Fig. 134).**

Takanohadai (Misaki, Sagami); Takappa; Kikori; Hidarimaki (Tosa).

Labre du Japon Krusenstern, Reise Atlas, 1809, p. 63, pl. XLIII, fig. 1. Japan.*Cheilodactylus zonatus* Cuvier & Valenciennes, Hist. Nat. Poiss., V, 1830, p. 365, pl. CXXIX. Japan.

Distrib.—Coast of Japan and southern China, north to Tōkyō.

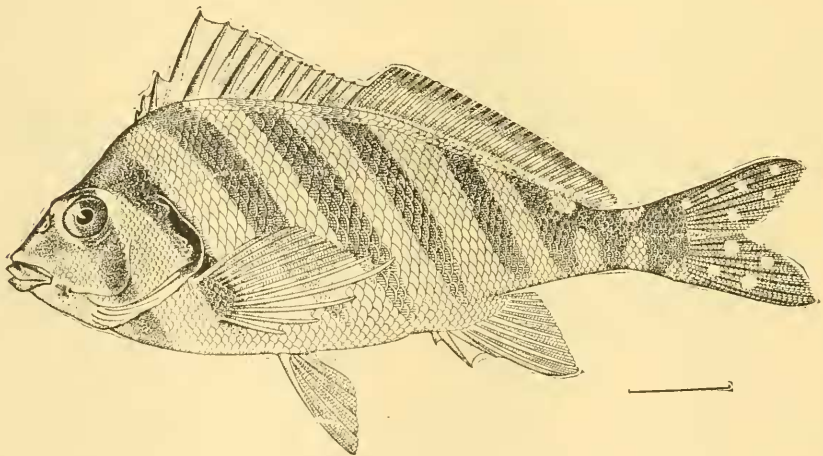


Fig. 134.

539. *Goniistius zebra* (Döderlein).

Migimaki (Tosa).

Cheilodactylus zebra Döderlein, Fische Japans, II, 1883, p. 29. Tōkyō.

Distrib.—Tōkyō to Nagasaki.

Family CIRRHITIDÆ.**Genus Cirrhitichthys** Bleeker.

Cirrhitichthys Bleeker, Naturk. Tydschr. Nederl. Ind., X, 1856, p. 474.

Cirrhitoopsis Gill, Proc. Ac. Nat. Sci. Phila., 1862, p. 109. (*Cirrhites aureus* Temminck & Schlegel).

Type *Cirrhitichthys graphidopterus* Bleeker = *Cirrhites aprinus* Cuvier & Valenciennes.

540. *Cirrhitichthys aureus* (Temminck & Schlegel). (Fig. 135).

Okigonbe.

Cirrhites aureus Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 15, pl. VII, fig. 2. Nagasaki.

Distrib.—Southern Japan to China.

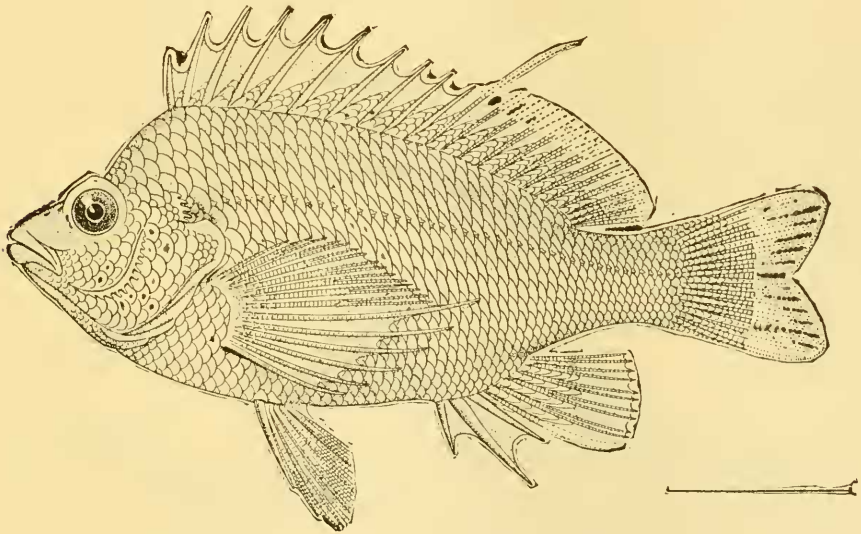


Fig. 135.

Genus Cirrhitus Lacépède.

Cirrhitus Lacépède, Hist. Nat. Poiss., V, 1803, p. 3.

Type *Cirrhitus maculatus* Lacépède = *Labrus marmoratus* Lacépède.

541. *Cirrhitus marmoratus* (Lacépède).

Isc-gonbe.

Labrus marmoratus Lacépède, Hist. Nat. Poiss., III, 1801, p. 492, pl. V, fig. 3. No locality given.

Distrib.—Coral Islands of the tropical Pacific, north to Yakushima, southern Japan.

Genus *Isobuna* Jordan.

Paracirrhites Steindachner, Fische Japans, II, 1883, p. 25 (*Paracirrhites japonicus* Steindachner). Not *Paracirrhites* Bleeker, 1875. (*Cirrhites forsteri* Bloch & Schneider).

Isobuna Jordan, Proc. U.S. Nat. Mus., XXXIII, 1907, p. 158.

Type *Paracirrhites japonicus* Steindachner.

542. *Isobuna japonica* (Steindachner).

Isobuna.

Paracirrhites japonicus Steindachner, Fische Japans, II, 1883, p. 25. Japan.

Distrib.—Coast of southern Japan.

Family POLYNEMIDÆ.**Genus *Polydactylus* Lacépède.**

Polydactylus Lacépède, Hist. Nat. Poiss., VIII, 1832, p. 181.

Type *Polydactylus plumieri* Lacépède = *Polynemus virginicus* Linnæus.

543. *Polydactylus agonasi* Jordan & McGregor. (Fig. 136).

Tsubame-konoshiro; Agonashi.

Polydactylus agonasi Jordan & McGrogor, Proc. U.S. Nat. Mus., XXX, 1906,

p. 814, fig. Nagasaki; Tōkyō Market.

Distrib.—Tōkyō to Nagasaki.

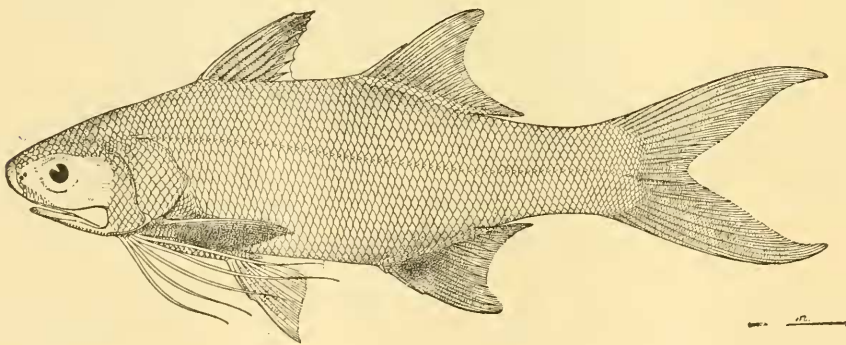


Fig. 136.

Family SILLAGINIDÆ.**Genus *Sillago* Cuvier.**

Sillago Cuvier, Règne Animal, 1st ed., II, 1817, p. 258.

Type *Atherina sihama* Forskål = *Sillago acuta* Cuvier & Valenciennes.

544. *Sillago sihama* (Forskål).

Kisu.

Atherina sihama Forskål, Descript. Anim., etc., 1775, p. 70. Red Sea.

Distrib.—Red Sea to Japan, north to Tōkyō.

545. *Sillago japonica* Temminck & Schlegel.

Aogisu.

Sillago japonica Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 33, pl. X, fig. 1. Nagasaki.

Distrib.—Molucca ; Hakodate to Nagasaki.

546. *Sillago parvisquamis* Gill.

Ya-gisu.

Sillago parvisquamis Gill, Proc. Ac. Nat. Sci. Phila., 1861, p. 505. Kanagawa, near Yokohama.

Distrib.—Tōkyō Bay.

Family LATILIDÆ.**Genus *Latilus* Cuvier & Valenciennes.***Coryphænoides* Lacépède, Hist. Nat. Poiss., III, 1802, p. 176 (*Coryphæncides houttuyni* Lacépède = *Coryphæna japonica* Houttuyn ; not of Gunner, a genus of *Macrouridæ* of prior date).*Latilus* Cuvier & Valenciennes, Hist. Nat. Poiss., V, 1830, p. 368.Type *Latilus argentatus* Cuvier & Valenciennes.**547. *Latilus argentatus* Cuvier & Valenciennes.**Shiroamadai ; Shiro-okitsudai ; Shiro-kodsuna ; Shiro-kudsuna (Nagasaki) ;
Shirokawa ; Shiro-kobiru, or Shiro-kuzidai (Japan Sea).? *Latilus argentatus* Cuvier & Valenciennes, Hist. Nat. Poiss., V, 1830, p. 369.
Locality uncertain ; Japan.*Latilus argentatus* Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 63, pl. XXVIII, fig. 2. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

548. *Latilus japonicus* (Houttuyn).Amadai ; Aka-amadai ; Aka-okitsudai ; Akakodzuna, Akakudsuna (Nagasaki) ;
Honamadai ; Akakobiru, or Akakuzidai (Japan Sea).? *Coryphæna japonica* Houttuyn, Holl. Maats. Weet. Harlem, XX, 1782, p. 311. Southern Japan.? *Coryphænoides houttuyni* Lacépède, Hist. Nat. Poiss., III, 1802, p. 176. (After Houttuyn).

Latilus japonicus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p. 489. Nagasaki.

Latilus ruber Kishinouye, Zool. Mag., XIX, Feb. 15, 1907, p. 59. Tōkyō.
Distrib.—Tōkyō to Nagasaki.

549. *Latilus auratus* Kishinouye.

Ki-amadai; Kinkudsuna (Nagasaki); Kiyama; Kikane.

Latilus auratus Kishinouye, Zool. Mag., XIX, Feb. 15, 1907, p. 59. Tōkyō.
Distrib.—Tōkyō to Nagasaki; Formosa.

Family PSEUDOCROMIDÆ.

Genus *Dampieria* Castlenau.

Cichlops Müller & Troschel, Horæ Ichthyol., III, 1894, p. 24. *Cichlops cyclophthalmus*. (The generic name *Cichlops* preoccupied).

Dampieria Castlenau, Res. Fish. Austr., 1875, p. 30.

Labracinus Schlegel, Ms., Bleeker, Ac. Néerl. Sci., 1875, p. 5. (*Cichlops cyclophthalmus* Müller & Troschel).

Type *Cichlops cyclophthalmus* Müller & Troschel.

550. *Dampieria cyclophthalma* (Müller & Troschel).

Me-gisu.

Cichlops cyclophthalmus Müller & Troschel, Hor. Ichth., III, p. 24, pl. IV, fig. 1. Sunda Sea.

Cichlops japonicus Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 147. Shimoda, Idzu.

Distrib.—East Indies; Shimoda, Idzu.

Family OWSTONIIDÆ.

Genus *Owstonia* Tanaka.

Owstonia Tanaka, Journ. Coll. Sci. Imp. Univ. Tokyo, XXIII, Art. 7, 1908, p. 46.

Type *Owstonia totomiensis* Tanaka.

551. *Owstonia totomiensis* Tanaka.

Soko-amadai.

Owstonia totomiensis Tanaka, Journ. Coll. Sci. Imp. Univ. Tokyo, XXIII, Art. 7, 1908, p. 47, pl. III, fig. 1. Tōtōmi.

Distrib.—Tōtōmi.

Family OPISTHOGNATHIDÆ.**Genus Gnathypops Gill.**

Gnathypops Gill, Proc. Ac. Nat. Sci. Phila., 1860, p. 241.

Type *Opisthognathus maxillosus* Poey.

552. *Gnathypops hopkinsi* Jordan & Snyder. (Fig. 137).

Ago-amadaï.

Gnathypops hopkinsi Jordan & Snyder, Proc. U.S. Nat. Mus., XXIV, 1902, p. 492, fig. 5. Misaki, Sagami.

Distrib.—Misaki, Sagami.

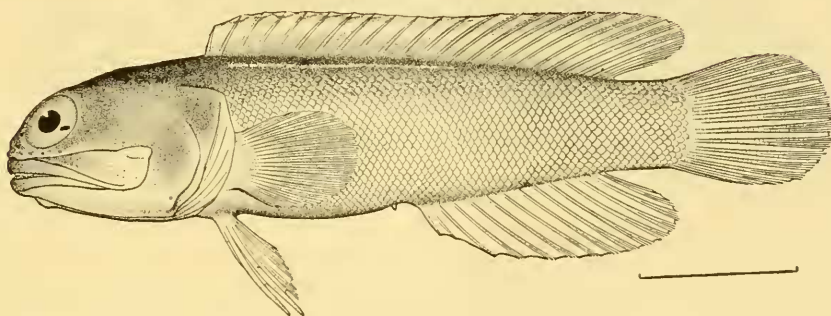


Fig. 137.

553. *Gnathypops evermanni* Jordan & Snyder. (Fig. 138).

Niji-amadaï.

Gnathypops evermanni Jordan & Snyder, Proc. U.S. Nat. Mus., XXIV, 1902, p. 493, fig. 6. Wakanoura, Kii.

Distrib.—Wakanoura.

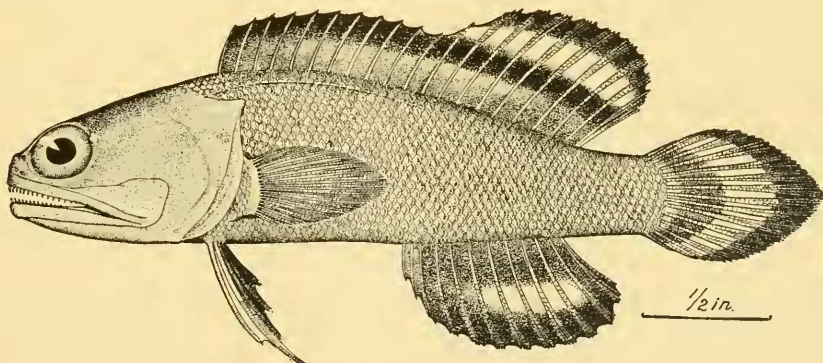


Fig. 138.

Genus *Stalix* Jordan & Snyder.

Stalix Jordan & Snyder, Proc. U.S. Nat. Mus., XXIV, 1902, p. 495.

Type *Stalix histrio* Jordan & Snyder.

554. *Stalix histrio* Jordan & Snyder. (Fig. 139).

Kaeru-amadai.

Stalix histrio Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p. 495,
fig. 7. Nagasaki.

Distrib.—Nagasaki.

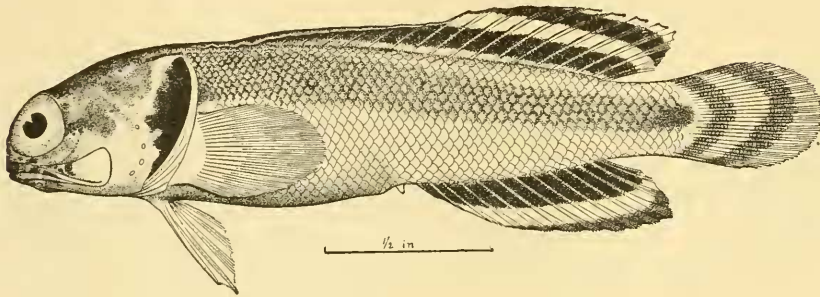


Fig. 139.

Family CEPOLIDÆ.**Genus *Acanthocephala* Bleeker.**

Acanthocephala Bleeker, Versl. Ak. Amsterd., VIII, 1874, p. 369.

Type *Cepola krusensterni* Temminck & Schlegel.

555. *Acanthocephala krusensterni* (Temminck & Schlegel).

Akatachiuwo; Riuguu-no-taimatsu; Sake-no-uwo.

Cepola krusensterni Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p.
130 (not figure). Nagasaki.

Distrib.—Tōkyō to Nagasai; Canton, China.

556. *Acanthocephala limbata* (Cuvier & Valenciennes). (Fig. 140).

Itten-akatachi.

Cepola limbata Cuvier & Valenciennes, Hist. Nat. Poiss., X, 1835, p. 402.
Japan, after Krusenstern, pl. LX, fig. 2.

Distrib.—Formosa; Tōkyō to Nagasaki.

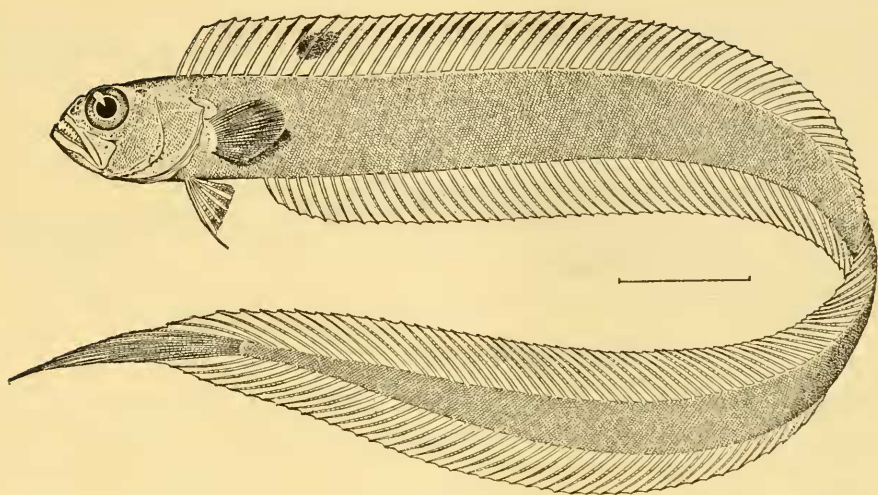


Fig. 140.

Genus *Cepola* Linnæus.

Cepola Linnæus, Syst. Nat., 12th ed., I, 1769, p. 445.

Type *Cepola tenia* Linnæus.

557. *Cepola schlegeli* Bleeker.

Sumi-tsuki-akatachi.

Cepola krusensterni Temminck & Schlegel, Fauna Japonica, Poiss., 1845, pl. LXXI, fig. 1. Nagasaki. (Not description).

Cepola schlegeli Bleeker, Nat. Tijds. Ned. Ind., 1854, Japan, p. 412. Kamino-seki.

Distrib.—Tōkyō and southward.

Family EMBIOTOCIDÆ.**Genus *Ditrema* Temminck & Schlegel.**

Ditrema Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 77, pl. XI, fig. 2.

Type *Ditrema temmincki* Bleeker.

558. *Ditrema temmincki* Bleeker.

Umi-tanago; Aka-umitanago; Aka-tanago.

Ditrema Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 77, pl. XL, fig. 2. Nagasaki.

Ditrema temmincki Bleeker, Verh. Bat. Gen., XXV, Japan, p. 33. Nagasaki.

Ditrema læve Güüther, Cat. Fish., II, 1860, p. 392. Japan.

Ditrema smitti Nyström, Kong. Svensk. Vet. Akad., 1887, p. 32. Nagasaki.

Distrib.—Hakodate to Nagasaki.

559. *Ditrema jordani* (Franz).

Misaki-umitanago.

Ditrema temmincki var *jordani* Franz, Abh. Akad. Wissensch. München, IV,

1910, p. 51. Misaki, Sagami.

Distrib.—Misaki, Sagami.

Genus *Neoditrema* Steindachner.

Neoditrema Steindachner, Fische Japans, II, 1883, p. 32.

Type *Neoditrema ransonneti* Steindachner.

560. *Neoditrema ransonneti* Steindachner.

Okitanago ; Ne (Okishima).

Neoditrema ransonneti Steindachner, Fische Japans, II, 1883, p. 32. Yokohama.

Distrib.—Tōkyō to Tsushima Is.

Family POMACENTRIDÆ.

Genus *Amphiprion* Schneider.

Amphiprion Schneider, Bloch, Syst. Ichth., 1801, pp. 47. 200.

Type *Lutianus cphippium* Bloch.

561. *Amphiprion frenatus* Brevoort.

Hama-kumanomi.

Amphiprion frenatus Brevoort, Exped. Japan, 1856, p. 263, pl. VI, fig. 4.

Nafa, Okinawa Island.

Distrib.—Riukiu ; Shimoda, Prov. Idzu.

562. *Amphiprion japonicus* Temminck & Schlegel.

Kumanomi.

? *Perca polymna* Linnaeus, Syst. Nat., 10th ed., 1758, p. 291. Indies.

Amphiprion japonicus Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 65. Nagasaki.

? *Amphiprion snyderi* Ishikawa, Proc. Depart. Nat. Hist. Tokyo Imp. Mus., vol. I, 1904, p. 11, pl. V. Bonin Islands.

Distrib.—Tōkyō to Naha ; Bonin Islands ; India ; Zanzibar ; Canton ; East Indies ; Philippines.

Genus *Chromis* Cuvier.*Chromis* Cuvier, Mémoires du Mus. d'Hist. Nat., 1815, p. 353.Type *Sparus chromis* Linnaeus.**563. *Chromis notatus* (Temminck & Schlegel).**

Suzumedai; Abura-uwo; Gongorō (Misaki, Sagami).

Heliastes notatus Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 66.
Nagasaki.

Distrib.—Tōkyō to Nagasaki.

Genus *Abudefduf* Forskål.*Abudefduf* Forskål, Descr. Anim., 1775, p. 59.Type *Chætodon sordidus* Forskål.**564. *Abudefduf saxatilis* (Linnaeus).**

Oyabitsuchiya.

Chætodon saxatilis Linnaeus, Syst. Nat., 10th ed., 1758, p. 276. India.*Abudefduf sexfasciatus* Jordan & Snyder, Proc. U.S. Nat. Mus., 1900, p. 755.
Shimoda; Misaki, Sagami.Distrib.—Misaki, Sagami to Formosa; Philippines; Samoa; Waigiu; Tubuai;
Marcus I; East Indies.**565. *Abudefduf sordidus* (Forskål).**

Shima-suzumedai.

Chætodon sordidus Forskål, Descr. Anim., 1775, p. 62. Djidda, Red Sea.Distrib.—Misaki, Sagami to Formosa; Philippines; Samoa; Hawaii; Tahiti;
Raitea; Bonham I; Fate; Makatea; East Indies.**566. *Abudefduf bengalensis* (Bloch).**

Tenjiku-suzumedai.

Chætodon bengalensis Bloch, Ichthyol., VI, 1788, p. 82, taf. CCXIII, fig. 2.
Bengal.

Distrib.—Tanegashima (Snyder Ms.).

567. *Abudefduf sexfasciatus* (Lacépède).

Rokusen-suzumedai.

Labrus sexfasciatus Lacépède, Hist. Nat. Poiss., III, 1801, p. 477, pl. 19, fig. 2.
Indian Ocean.*Glyphisodon celestinus* (Solander) Cuvier & Valenciennes, Hist. Nat. Poiss.,
V, 1830, p. 464, pl. 135, and IX, 1833, p. 508.

Distrib.—Tanegashima (Snyder ms.).

568. *Abudefduf clarki* Snyder.

Iso-suzumedai.

Abudefduf clarki Snyder, Bull. U.S. Nat. Mus., XL, 1911, p. 535. Tanegashima.

Distrib.—Misaki, Sagami ; Tanegashima.

569. *Abudefduf zonatus* (Cuvier & Valenciennes).

Hakusen-suzumedai.

Glyphisodon zonatus Cuvier & Valenciennes, Hist. Nat. Poiss., V, 1830, p. 483. New Guinea.

Distrib.—Samoa ; Fiji ; New Guinea ; East Indies ; Tanegashima (Snyder ms.).

570. *Abudefduf antjerius* (Kuhl & Van Hasselt).

Kinran-suzumedai.

Glyphisodon antjerius (Kuhl & Van Hasselt) Cuvier & Valenciennes, Hist. Nat. Poiss., V, 1830, p. 481. Java.

Distrib.—Samoa ; Guam ; New Ireland ; Strong I. ; New Guinea ; East Indies ; Tanegashima.

571. *Abudefduf glaucus* (Cuvier & Valenciennes).

Nezu-suzumedai.

Glyphisodon glaucus Cuvier & Valenciennes, Hist. Nat. Poiss., V, 1830, p. 475. Guam.

Distrib.—Misaki, Sagami ; Tanegashima (Snyder ms.).

572. *Abudefduf amabilis* (De Vis).

Ōsen-suzumedai.

Glyphisodon amabilis De Vis, Proc. Linn. Soc. N. S. W., 1884, p. 452. South Seas.

Distrib.—Samoa ; Tahiti ; Oualan ; Faituna ; Fiji ; Ponape ; Tanegashima (Snyder ms.).

573. *Abudefduf bonang* (Bleeker).

Nanyō-suzumedai.

Glyphisodon bonang Bleeker, Nat. Tijds. Ned. Ind., III, 1852, p. 582. Padang.

Distrib.—Aburatsubo (Franz ; 21 centimeters long).

574. *Abudefduf melas* (Kuhl & Van Hasselt).

Kuro-suzumedai.

Glyphisodon melas (Kuhl & Van Hasselt), Cuvier & Valenciennes, Hist. Nat. Poiss., V, 1830, p. 472. Java.

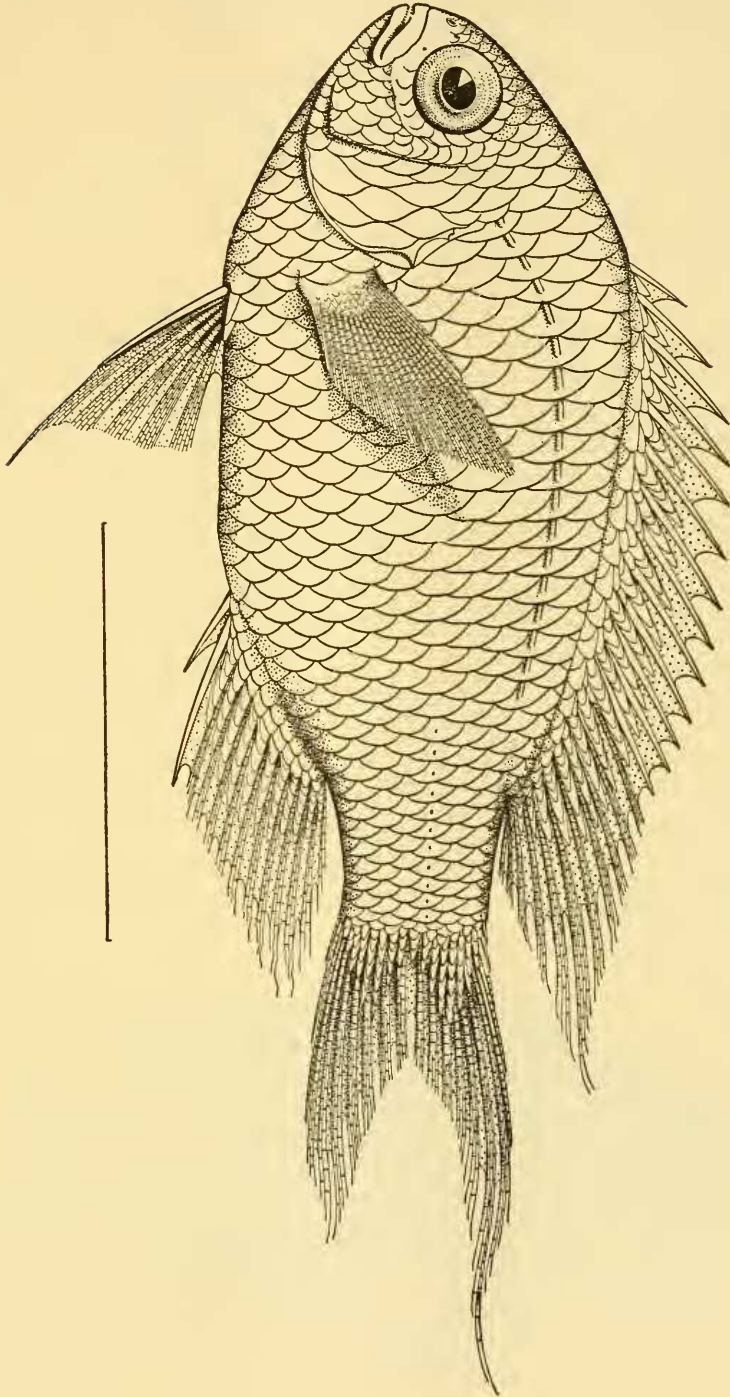


Fig. 141.

Distrib.—Misaki, Sugami ; Riukiu ; Laysan ; East Indies.

Genus *Pomacentrus* Lacépède.

Pomacentrus Lacépède, Hist. Nat. Poiss., IV, 1803, p. 508.

Type *Chaetodon pavo* Bloch.

575. *Pomacentrus dorsalis* Gill.

Se-hoshi-suzumedai.

? *Pomacentrus tripunctatus* Cuvier & Valenciennes, Hist. Nat. Poiss., V, 1830, p. 421. Vanicolo.

Pomacentrus dorsalis Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 147. Shimoda.

Distrib.—Shimoda, Idzu ; Philippines ; East Indies.

576. *Pomacentrus rathbuni* Jordan & Snyder. (Fig. 141).

Sumire-suzumedai.

Pomacentrus rathbuni Jordan & Snyder, Proc. U.S. Nat. Mus., XXIII, 1901, p. 754. Near Yokohama.

Distrib.—Yokohama.

577. *Pomacentrus cœlestis* Jordan & Starks. (Fig. 142).

Sora-suzumedai.

Pomacentrus cœlestis Jordan & Starks, Proc. Cal. Ac. Sci., 1900, p. 383, pl. XXI. Wakanoura.

Distrib.—Wakanoura.

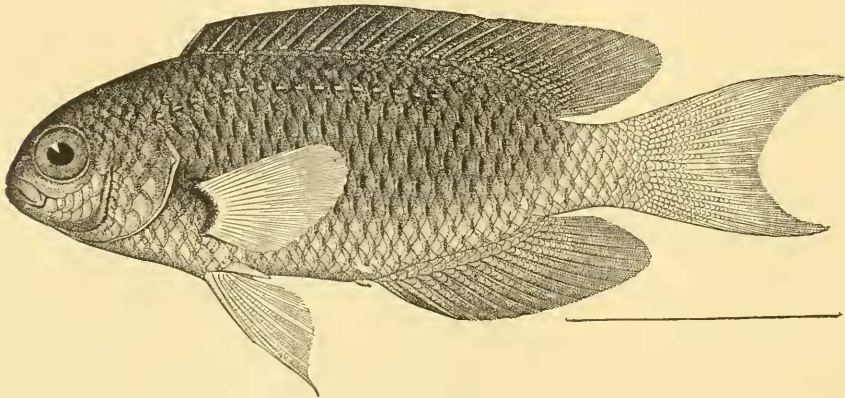


Fig 142.

Family LABRIDÆ,**Genus Chærodon** Bleeker.

Chærodon Bleeker, Ov. Glads. Lab., 1847, p. 10.

Charops Rüppell, Verz. Mus. Senckenberg Fische, 1852, p. 20. (*Charops melcagris* Rüppell=*Labrus macrodontus* Lacépède.

Type *Labrus macrodontus* Lacépède.

578. Chærodon azurio (Jordan & Snyder).

Kandai.

Labrus japonicus Cuvier & Valenciennes, Hist. Nat. Poiss., XIII, 1837, p. 99. Japan. (Not *Labrus japonicus* Houttuyn).

Charops azurio Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 747.

After Temminck & Schlegel. Substitute for *japonicus* preoccupied.

Distrib.—Tōkyō to Formosa.

Genus Semicossyphus Günther.

Semicossyphus Günther, Ann. Mag. Nat. Hist., VIII, 1861, p. 384.

Type *Cossyphus reticulatus* Cuvier & Valenciennes.

579. Semicossyphus reticulatus (Cuvier & Valenciennes). (Fig. 143).

Kobudai.

Cossyphus reticulatus Cuvier & Valenciennes, Hist. Nat. Poiss., XIII, 1839, p. 139. Japan.

Semicossyphus robecchii Steindachner & Döderlein, Fische Japans, IV, 1887, p. 15. Yokohama.

Distrib.—Southern Japan.

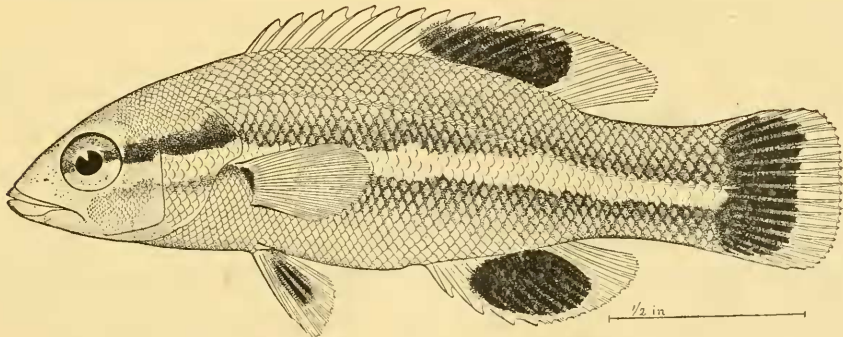


Fig. 143.

Genus *Lepidaplois* Gill.*Lepidaplois* Gill, Proc. Ac. Nat. Sci. Phila., 1862, p. 140.Type *Labrus axillaris* Bennett.580. *Lepidaplois perditio* (Quoy & Gaimard). (Fig. 144).

Taki-bera.

Labrus perditio Quoy & Gaimard, Voy. Astrolabe, 1834, p. 702, pl. XX, fig. 4. "Obtained on dangerous reefs in the Pacific."

Distrib.—Mauritius; Minerva Reef; Tonga; Saumarez Reefs; Aneitum; Saigasaki near Wakanoura.

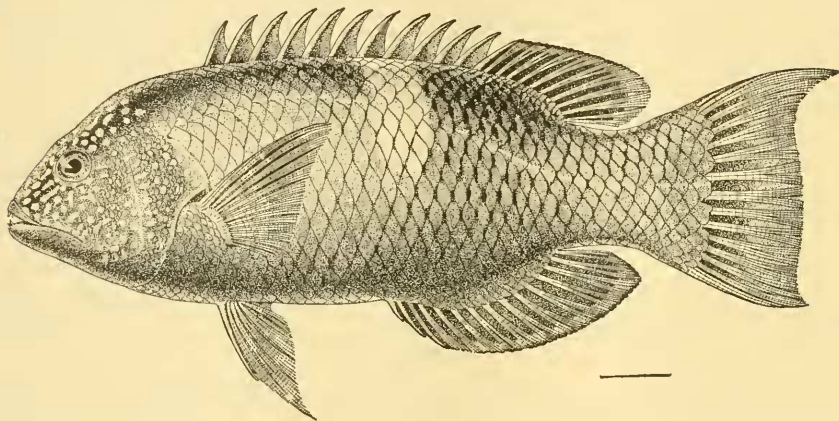


Fig. 144.

Genus *Verreo* Jordan & Snyder.*Verreo* Jordan & Snyder, Proc. U.S. Nat. Mus., XXIV, 1902, p. 619.Type *Cossyphus oxycephalus* Bleeker.581. *Verreo oxycephalus* (Bleeker). (Fig. 145).

Kitsunedai.

Cossyphus oxycephalus Bleeker, Ichth. Notices, 1862, p. 7. (Specimen in Museum of Leyden, supposed to be from Japan).*Cossyphus unimaculatus* Steindachner & Döderlein, Fische Japans, IV, 1887, p. 15. Tōkyō.

Distrib.—Hawaii; New Guinea; Australia; Tōkyō.

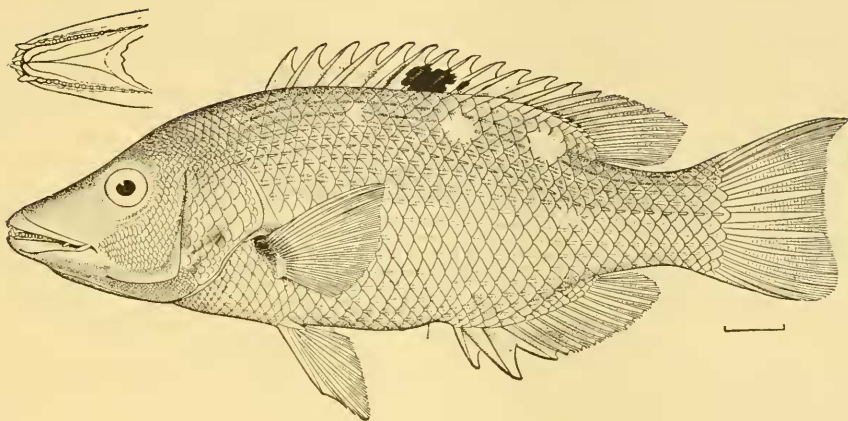


Fig. 145.

Genus *Pseudolabrus* Bleeker.

Pseudolabrus Bleeker, Proc. Zool. Soc. London, 1861, p. 413.

Type *Labrus rubiginosus* Temminck & Schlegel = *Labrus japonicus* Houttuyn.

582. *Pseudolabrus japonicus* (Houttuyn).

Sasanoha-bera.

Labrus japonicus Houttuyn, Beschryvning Einige Japansche Visschen, 1782, p. 311 et seq. Nagasaki (female).

Labrus rubiginosus Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 165, pl. LXXXVI, fig. 1. Nagasaki.

Labrichthys affinis Döderlein, Fische Japans, IV, 1887, p. 16. Tōkyō (female).
Distrib.—Tōkyō to Nagasaki.

583. *Pseudolabrus gracilis* (Steindachner).

Ito-bera.

Labrichthys gracilis Steindachner, Fische Japans, IV, 1887, p. 17. Tōkyō.
Distrib.—Tōkyō to Nagasaki.

Genus *Duymæria* Bleeker.

Duymæria Bleeker, Act. Soc. Sci. Indo-nederl., I, 1856, Amboyna, p. 52.

Labrastrum Guichenot, Rev. Zool., 1860, p. 152. (*Ctenolabrus flagellifer* Cuvier & Valenciennes).

Type *Crenilabrus aurigarius* Richardson.

584. *Duymæria flagellifera* (Cuvier & Valenciennes).

Ohaguro-bera; Tenjō-bera (Misaki, Sagami); Gonbekusabi; Morokoshi-bera.

Ctenolabrus flagellifer Cuvier & Valenciennes, Hist. Nat. Poiss., XIII, 1837, p. 240. No locality. (Male).

Duymæria spilogaster Bleeker, Act. Soc. Sci. Indo. Ned., Amboyna, I, 1856, p. 54.

Duymæria japonica Bleeker, Act. Soc. Indo. Ned., Amboyna, I, 1856, p. 53.

Nagasaki. (After Temminck & Schlegel, *Ctenolabrus flagellifer*. Nagasaki).

Distrib.—Tōkyō to Formosa; Philippines.

Genus *Anampses* Cuvier.

Anampses Cuvier, Règne Anim., 2d ed., 1829.

Type *Anampses cuvieri* Quoy & Gaimard.

585. *Anampses ikedai* Tanaka.

Susuki-bera.

Anampses ikedai Tanaka, Jour. Coll. Sci. Imp. Univ. Tokyo, XXIII, March, 15, 1908, p. 32, pl. I, fig. 2. Kagoshima.

Distrib.—Kagoshima.

586. *Anampses nagayoi* Tanaka.

Nagayc-bera.

Anampses nagayoi Tanaka, Jour. Coll. Sci. Imp. Univ. Tokyo, XXIII, March, 15, 1908, p. 34, pl. I, fig. 3. Kagoshima.

Distrib.—Kagoshima.

Genus *Stethojulis* Günther.

Stethojulis Günther, Cat. Fish., IV, 1862, p. 140.

Type *Julis strigiventer* Bennett.

587. *Stethojulis strigiventer* (Bennett).

Hara-suji-bera.

Julis strigiventer Bennett, Proc. Zool. Soc., 1832, p. 184. Ceylon.

Distrib.—Samoa; Palau; Fiji; Vavau; Ponape; New Guinea; East Indies; Philippines; Tanegashima (Snyder ms.); Yokohama (Franz).

588. *Stethojulis kalosoma* (Bleeker). (Fig. 146).

Kaminari-bera.

Julis kalosoma Bleeker, Nat. Tijds. Ned. Ind., III, 1852, p. 289. Amboyna.

Stethojulis terima Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p. 631. Misaki, Sagami.

Distrib.—New Guinea ; East Indies ; Philippines ; Kominato ; Misaki, Sagami ; Wakanoura.

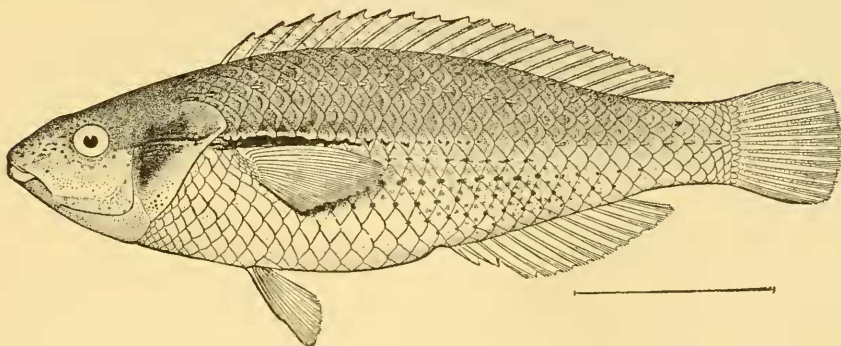


Fig. 146.

589. *Stethojulis axillaris* (Quoy & Gaimard).

Kuro-hoshi-bera.

Julis axillaris Quoy & Gaimard, Voy. Uranie, Zool., 1824, p., 272. Hawaii.

Distrib.—Hawaii ; Tanegashima (Snyder ms.).

590. *Stethojulis phekadopleura* Bleeker.

Ami-bera.

Stethojulis phekadopleura Bleeker, Verh. Bat. Gen., XXII, 1849, p. 8. Bali.

Distrib.—East Indies, Samoa ; Solomon Is.; Ponape ; New Guinea ; Philippines, Tanegashima (Snyder ms.).

591. *Stethojulis trossula* Jordan & Snyder. (Fig. 147).

Nizi-bera.

Stethojulis trossula Jordan & Snyder, Proc. U.S. Nat. Mus., XXIV, 1902, p. 633, fig. 7. Misaki, Sagami.

Distrib.—Misaki, Sagami to Wakanoura.

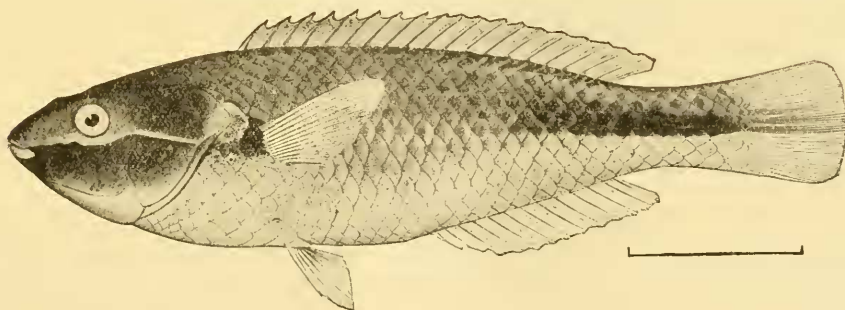


Fig. 147.

Genus *Halichæres* Rüppell.

Halichæres Rüppell, Neue Wirbelthiere, Fische, 1837, p. 16. (Not *Halichære* Nilsson, 1820, a genus of seals).

Type *Halichæres bimaculatus* Rüppell.

592. *Halichæres pæcilopterus* (Temminck & Schlegel).

Kiūsen (Misaki ; Sagami) ; Aobera (male) ; Akabera (female).

Julis pæcilopterus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 169, pl. LXXXVI, bis., fig. 1. Nagasaki. (Male).

Julis pyrrhogramma Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 170, pl. LXXXVI, bis., fig. 2. Nagasaki. (Female).

Distrib.—Hakodate to Nagasaki.

593. *Halichæres opercularis* (Güntner).

Sinziu-bera.

PlatyGLOSSUS opercularis Günther, Cat. Fish., IV, 1862, p. 148. Feejee Islands ; Amboyna.

Distrib.—Fiji ; Samoa ; Calayan ; Amboyna ; Tanegashima (Snyder ms.).

594. *Halichæres trimaculatus* (Quoy & Gaimard).

Sarasa-bera.

Julis trimaculata Quoy & Gaimard, Voy. Astrol., Zool., II, 1830, p. 705, pl. 20, fig. 2. Vanicolo.

Distrib.—East Indies ; Polynesia ; Philippine ; Tanegashima (Snyder ms.).

595. *Halichæres bleekeri* (Steindachner & Döderlein).

Honbera.

PlatyGLOSSUS bleekeri Steindachner & Döderlein, Fische Japans, IV, 1837, p. 19. Tōkyō.

Distrib.—Tōkyō to Nagasaki.

596. *Halichæres tremebundus* Jordan & Snyder. (Fig. 148).

Seto-bera.

Halichæres tremebundus Jordan & Snyder, Proc. U.S. Nat. Mus., XXIV, 1902, p. 639, fig. 8. Hiroshima.

Distrib.—Misaki, Sagami to Nagasaki.

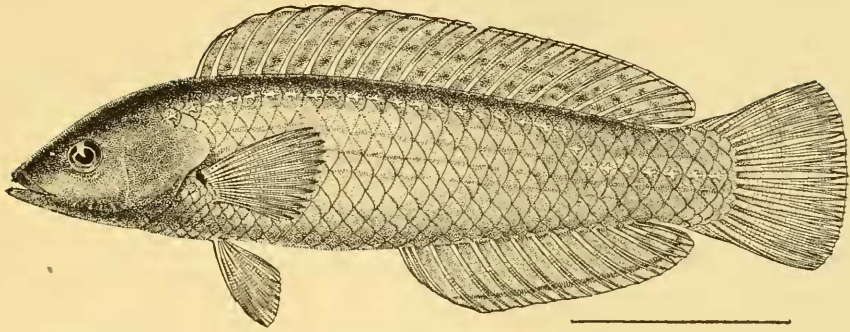


Fig. 148.

Genus *Coris* Lacépède.

Coris Lacépède, Hist. Nat. Poiss., III, 1802, p. 96.

Type *Coris aygula* Lacépède.

597. *Coris aygula* Lacépède. (Fig. 149).

Kanmuri-bera.

Coris aygula Lacépède, Hist. Nat. Poiss., III, 1802, p. 96, pl. IV, fig. 1. Ile de France.

Distrib.—Guam ; Tahiti ; Faté, Tubuai ; East Indies ; Wakanoura, Japan.

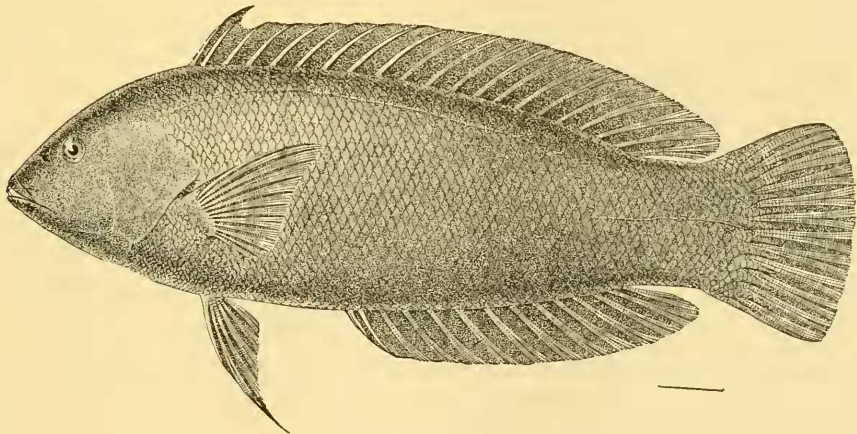


Fig. 149.

Genus *Julis* Cuvier.

Julis Cuvier, Règne Animal, 1st ed., I, 1817, p. 261.

Type *Labrus julis* Linnæus.

598. *Julis musume* Jordan & Snyder.**Musume-bera.***Julis musume* Jordan & Snyder, Smiths. Misc. Coll., 45, April 11, 1904, p. 236, pl. LXI. Off Idzu.

Distrib.—Tōkyō to Nagasaki.

Genus *Thalassoma* Swainson.*Thalassoma* Swainson, Nat. Hist. Classif. Fishes, II, 1839, p. 224.Type *Scarus purpurcus* Forskål.**599. *Thalassoma cupido* (Temminck & Schlegel).****Nishiki-uwo.***Julis cupido* Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 170, pl. LXXXVI bis, fig. 3. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

600. *Thalassoma lutescens* (Solander).**Yamabuki-bera.***Labrus lutescens* Solander, Ms. Tahiti.*Julis lutescens* Bennett, Zool. Beechey's Voy. Blossom, Fishes, 1839, p. 65, pl. XIX, fig. 2. Tahiti; Riukiu (after Solander).

Distrib.—Hawaii; Tahiti; Fanning Is., Marcus I; Riukiu Is; Wakanoura, Japan.

601. *Thalassoma dorsale* (Quoy & Gaimard).**Sena-suji-bera.***Julis dorsalis* Quoy & Gaimard, Voy. Astrolabe, Poiss., 1834, p. 813, pl. XV, fig. 5. Ile de France.

Distrib.—Samoa; Fiji; Aneiteum; New Ireland; New Guinea; Marcus I; Shortland I.; East Indies; Philippines; Riukiu Is.; Kagoshima, Japan.

Genus *Cheilio* Lacépède.*Cheilio* (Commerson) Lacépède, Hist. Nat. Poiss., IV, 1803, p. 432.Type *Cheilio auratus* Lacépède.**602. *Cheilio inermis* (Forskål).****Kamasu-bera.***Labrus inermis* Forskål, Descr. Anim., 1775, p. 34. Red Sea.

Distrib.—Hawaii; Samoa; Guam; Vanicolo; Tahiti; Aneiteum; New Guinea; East Indies; Philippines; Riukiu Is.; Wakanoura, Japan.

Genus *Gomphosus* Lacépède.*Gomphosus* Lacépède, Hist. Nat. Poiss., III, 1802, p. 100.Type *Gomphosus cœruleus* Lacépède.**603. *Gomphosus varius* Lacépède.**

Kugi-bera.

Gomphosus varius Lacépède, Hist. Nat. Poiss., III, 1801, p. 104, pl. V, fig. 2.
Ile de France.Distrib.—Hawaii ; Samoa ; Guam ; Fanning Is. ; New Guinea ; East Indies ;
Kagoshima ; Riukiu Is.**Genus *Cirrhilabrus* Temminck & Schlegel.***Cirrhilabrus* Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 167.Type *Cirrhilabrus temmincki* Bleeker.**604. *Cirrhilabrus temmincki* Bleeker. (Fig. 150).**

Ito-hiki-bera.

Cirrhilabrus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 167.
Nagasaki.*Cirrhilabrus temmincki* Bleeker, Verh. Bat. Gen., XXV, Japan, 1852, p. 17.
Nagasaki.

Distrib.—Wakanoura ; Nagasaki.

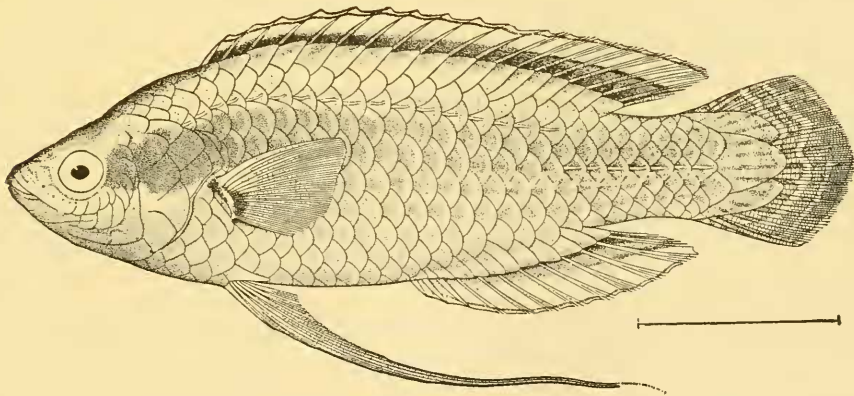


Fig. 150.

Genus *Iniistius* Gill.*Iniistius* Gill, Proc. Ac. Nat. Sci. Phila., 1862, p. 143.Type *Xyrichtys pavo* Cuvier & Valenciennes.

605. Iniistius dea (Temminck & Schlegel).Tensu-dai (Misaki, Sagami); **Beni-kusabi.***Ayrichthys dea* Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 171, pl. LXXXVII. Nagasaki.

Distrib.—Canton; Tōkyō to Nagasaki.

Genus Hemipteronotus Bleeker.*Hemipteronotus* Lacépède, Hist. Nat. Poiss., III, 1801, p. 215 (*quinquemaculatus*).*Hemipteronotus* Bleeker, Proc. Zool. Soc. Lond., 1861, p. 414 (*Hemipteronotus quinquemaculatus*); Bleeker, Versl. Kon. Ak. Wet., XIII, 1862, p. 103.Type *Hemipteronotus quinquemaculatus* Lacépède.**606. Hemipteronotus megapterygus** Pietschmann.*Hemipteronotus megapterygus* Pietschmann, Anzeig. Karsl. Akad. Wiss. Wien, p. 1, Japan.

Distrib.—Japan.

Family SCARICHTHYIDÆ.**Genus Calotomus** Gilbert.*Calotomus* Gilbert, Proc. U.S. Nat. Mus., 1890, p. 70.Type *Calotomus xenodon* Gilbert.**607. Calotomus japonicus** (Cuvier & Valenciennes).

Budai; Igami.

Callyodon japonicus Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 1839, p. 294, pl. CCCCVI. Japan.

Distrib.—Tōkyō to Nagasaki; Riukiu Is.

Genus Calliodon Gronow.*Calliodon* Gronow, Museum Ichth., II, 1766, p. 8.Type *Calliodon croicensis* Gronow.**608. Calliodon globiceps** (Cuvier & Valenciennes).

Daidai-bera.

Scarus globiceps Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 1839, p. 179. Tahiti.

Distrib.—Tahiti; Ōshima (Steindachner).

609. Calliodon ovifrons (Temminck & Schlegel).

Aobudai.

Scarus ovifrons Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 173, pl. LXXXVIII. Bay of Jeddo (Tōkyō).

Pseudoscarus schlegelii Steindachner, Fische Japans, IV, 1887, p. 21. Tōkyō.

Distrib.—Tōkyō to Kagoshima.

Family ZEIDÆ.**Genus Zeus** Linnaeus.

Zeus Linnaeus, Syst. Nat., 10th ed., 1758, p. 137.

Type *Zeus faber* Linnaeus.

610. Zeus japonicus Cuvier & Valenciennes.

Matō-dai; Kanetataki.

Poisson à Miroir du Japon Tilesius, Krusenstern's Reise, Atlas, about 1809, pl. LI, fig. 1. Japan.

Zeus japonicus Cuvier & Valenciennes, Hist. Nat. Poiss., X, 1835, p. 24. (On a Japanese drawing).

Distrib.—Tōkyō to Nagasaki.

Genus Zenopsis Gill.

Zenopsis Gill, Proc. Ac. Nat. Sci. Phila., 1862, p. 126.

Type *Zeus nebulosus* Temminck & Schlegel.

611. Zenopsis nebulosa (Temminck & Schlegel).

Kagamidai.

Zeus nebulosus Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 123, pl. LXVI. Nagasaki.

Distrib.—Tōkyō; Nagasaki.

Genus Zen Jordan.

Zen Jordan, Proc. U. S. Nat. Mus., XXVI, 1903, p. 694.

Type *Cyttopsis itea* Jordan & Fowler.

612. Zen itea (Jordan & Fowler). (Fig. 151).

Kago-matōdai.

Cyttopsis itea Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1902, p. 519, fig. 1. Suruga Bay.

Distrib.—Suruga Bay.

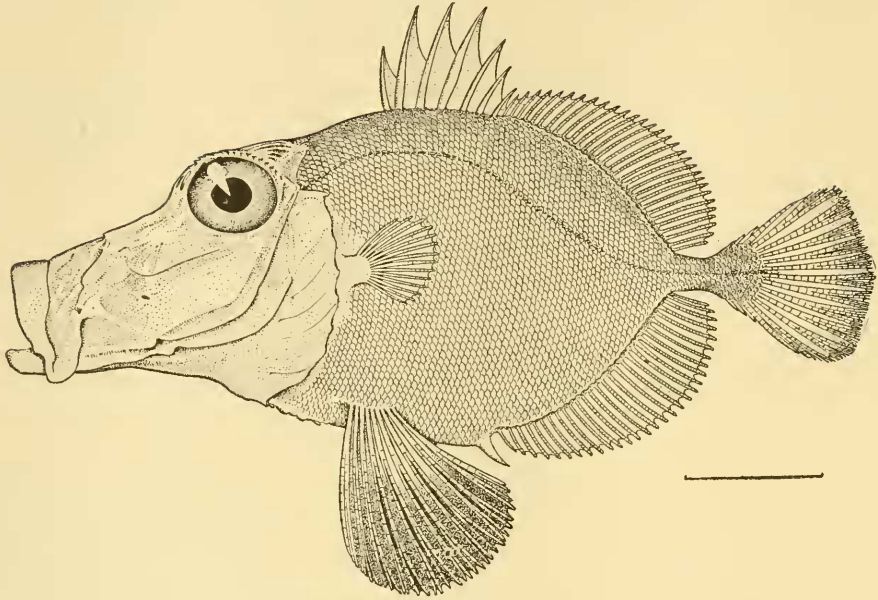


Fig. 151.

Family Antigoniidae.**Genus Antigonia** Lowe.

Antigonia Lowe, Proc. Zool. Soc. Lond., 1843, p. 85.

Hypsinothus Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 84, pl. XLII, fig. 2. (*Hypsinothus rubescens* Günther).

Type *Antigonia capros* Lowe.

613. *Antigonia rubescens* (Günther).

Beni-hishidai; Beni-hatatate.

Hypsinothus Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 84, pl. XLII, fig. 2. Nagasaki.

Hypsinothus rubescens Günther, Cat. Fish., II, 1860, p. 63. Copied.

Hypsinothus benihatatate Bleeker, Poiss. connues du Japon, 1879, p. 9. (Name only).

Distrib.—Misaki, Sagami to Nagasaki.

614. *Antigonia steindachneri* Jordan & Evermann.

Hishidai; Yokodai.

Antigonia steindachneri Jordan & Evermann, in Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1902, p. 522.

Distrib.—Hilo; Kailua; Honolulu; Tōkyō.

615. *Antigonia fowleri* Franz.

Suji-beni-hatatate.

Antigonia fowleri Franz, Abh. Bayer. Akad., 1910, p. 58. Sagami Bay.*Antigonia rubescens* Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1902, p. 523.

Distrib.—Misaki, Sagami and southward.

Family PLATACIDÆ.**Genus *Platax* Cuvier.***Platax* Cuvier, Règne Animal, 1st ed., I, 1817, p. 334.Type *Chætodon teira* Forskål.**616. *Platax teira* (Forskål).**

Tsubame-uwo; Tsubakuro-dai.

Chætodon teira Forskål, Descript. Anim., 1775, p. 60. Lohajæ.*Platax vespertilio japonicus* Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 83, pl. XLIII. Nagasaki.

Distrib.—Off Miyako, Rikuchū to Formosa; Palau Is.; New Guinea; East Indies.

617. *Platax vespertilio* (Bloch).

Nanyō-tsubame.

Chætodon vespertilio Bloch, Ichth., 1787, p. 67, taf. 199, fig. 2. East Indies.

Distrib.—East Indies; Sagami Bay.

Genus *Chætodon* (Artedi) Linnæus.*Chætodon* Artedi, Genera, 1738, p. 51. Nonbinomial.*Chætodon* Linnæus, Syst. Nat., 10th ed., 1758, p. 272.*Osteochromis* Franz, Abh. Bayer. Akad., 1910, p. 52 (*Osteochromis larvatus* Franz).Type *Chætodon striatus* Linnæus.**618. *Chætodon collaris* Bloch. (Fig. 152).**

Chōchōuwo; Uchiwadaï.

Chætodon collaris Bloch., Ichth., 1758, pl. CCXVI, fig. 1. Japan.*Chætodon aureus* Temminck & Schlegel, Fauna Japonica, Poiss., 1847, p. 81, pl. XLII, fig. 1. Nagasaki. Not *Chætodon aureus* Bloch.*Chætodon auripes* Jordan & Snyder, Check List Fish. Japan, 1901, p. 90. (Substitute for *aureus* preoccupied).

Distrib.—Southern Japan and Riukiu Islands.

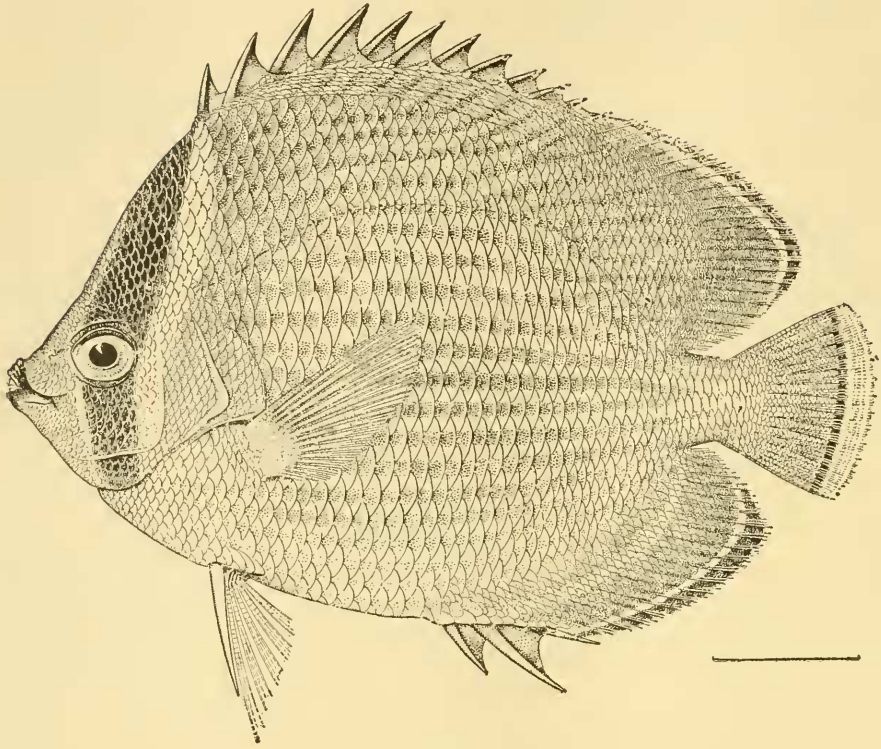


Fig. 152.

619. *Chætodon setifer* Bloch.

Toge-chōchō-uwo.

Chætodon setifer Bloch, Ichthyol., 1797, taf. 426, fig. 1. Coromandel.

Distrib.—South Seas ; Philippines ; Tanegashima (Snyder ms.).

620. *Chætodon vagabundus* Linnæus.

Fuurai-chōchōuwo.

Chætodon vagabundus Linnæus, Syst. Nat., 10th ed, 1758, p. 276. Indies.

Distrib.—South Seas ; Bacon ; southern Japan (Misaki, Sagami) and Tanegashima (Snyder ms.).

621. *Chætodon lunula* (Lacépède).

Tsuki-chōchōuwo.

Pomacentrus lunula Lacépède, Hist. Nat. Poiss., IV, 1803, p. 507. Ile de France.

Distrib.—South Seas ; southern Japan (Snyder ms.).

622. *Chætodon nippon* Döderlein.

Shirakodai.

Chætodon nippon Döderlein, Fische Japans, II, 1883, p. 23, pl. IV, fig. 2.

Tōkyō.

Chætodon ocellifer Franz, Abh. Bayer. Akad., 1910, p. 49, taf. V, fig. 35.
Nagasaki. (Probably larva of *Chætodon nippon*).

Osteochromis larvatus Franz, op. cit., p. 52, taf. V, fig. 43. Aburatsubo. (Also a larval *Chatodon*).

Distrib.—Tō:ōmi Bay ; Misaki, Sīgami ; Tōkyō Market.

Genus *Coradion* Kaup.

Coradion Kaup, Wiegmann's Archiv, XXIV, pl. I, p. 146.

Type *Chatodon chrysozonus* Kuhl & Van Hasselt.

623. *Coradion modestum* (Temminck & Schlegel). (Fig. 153).

Genroku-dai.

Chatodon modestus Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 80, pl. XII, fig. 2. Nagasaki.

Coradion desmotes Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1902, p. 539, fig. 5. Nagasaki.

Distrib.—Nagasaki ; Misaki, Sīgami.

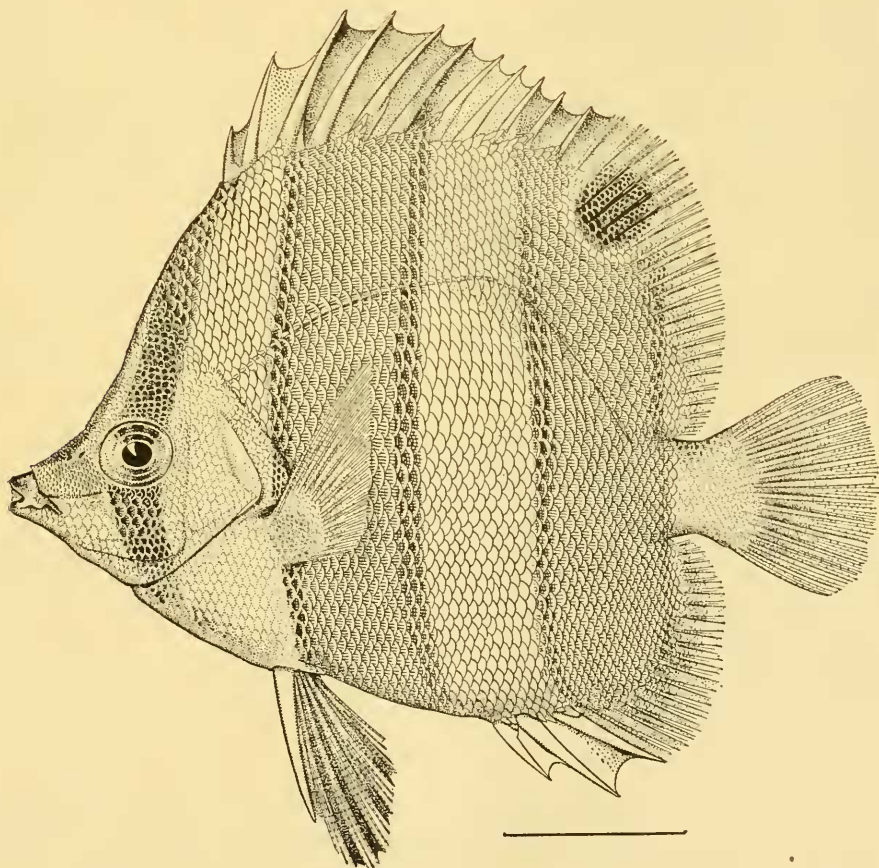


Fig. 153.

Genus *Holacanthus* Lacépède.

Holacanthus Lacépède, Hist. Nat. Poiss., IV, 1803, p. 525.

Type *Chaetodon tricolor* Bloch.

624. *Holacanthus septentrionalis* Temminck & Schlegel.

Kinchakudai.

Holacanthus septentrionalis Temminck & Schlegel, Fauna Japonica, Poiss., 1844, p. 82, pl. XLIV. Nagasaki.

Holacanthus ronin Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1902, p. 546, fig. 6. Misaki, Sagami ; Wakanoura.

Holacanthus albofasciatus Tanaka, Journ. Coll. Sci. Imp. Univ. Tokyo, XXVII, Art. 8, Oct. 10, 1909, p. 16. Nagasaki (young).

Distrib.—Nagasaki ; Ikune, Satsuma ; Misaki, Sagami ; Wakanoura.

625. *Holacanthus bishopi* Seale.

Hama-kinchaku.

Holacanthus bishopi Seale, Occasional Papers, Bishop Mus., I, No. 3, 1901, p. 106. Guam.

Distrib.—Guam ; Okinawa ; Misaki, Sagami (Snyder ms.).

Genus *Heniochus* Cuvier & Valenciennes.

Heniochus Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 1831, p. 92.

Type *Chaetodon macrolepidotus* Linnæus.

626. *Heniochus diphrentes* Jordan.

Hatatatedai.

?*Heniochus acuminatus* Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 1831, p. 98.

Heniochus diphrentes Jordan, Proc. U. S. Nat. Mus., XXVI, 1903, p. 694, fig. 3. Wakanoura.

Distrib.—Misaki, Sagami ; Shikoku ; Wakanoura ; Nagasaki. (Perhaps not distinct from *H. acuminatus*).

Genus *Microcanthus* Swainson.

Microcanthus Swainson, Class. Anim., II, 1839, p. 215.

Type *Chaetodon strigatus* Cuvier & Valenciennes.

627. *Microcanthus strigatus* (Cuvier & Valenciennes).

Kagokakidai; Shimayakkodai.

Chaetodon strigatus (Langsdorf) Cuvier & Valenciennes, Hist. Nat. Poiss., II, 1831, p. 25, pl. CXX. Japan.

Distrib.—Tōkyō to Nagasaki.

Family ZANCLIDÆ.**Genus *Zanclus*** Cuvier & Valenciennes.*Zanclus* (Commerson Ms.) Lacépède, Hist. Nat. Poiss., IV, 1803, p. 473. (*Chaetodon cornutus* Linnaeus. Nonbinomial).*Zanclus* Cuvier & Valenciennes, Hist. Nat. Poiss., VII, 1831, p. 102.Type *Chaetodon cornutus* Linnaeus.**628. *Zanclus cornutus* (Linnaeus).**

Tsuno-dashi.

Chaetodon cornutus Linnaeus, Syst. Nat., 10th ed., 1758, p. 273. Indies. (After Artedi).

Distrib.—Shores of southern Japan.

Family HEPATIDÆ.**Genus *Monoceros*** Bloch & Schneider.*Monoceros* Schneider, Syst. Ichth., 1801, p. 186.Type *Monoceros biaculeatus* Bloch & Schneider.**629. *Monoceros unicornis* (Forskål).**

Tengu-hagi; Ikkaku-hagi.

Chaetodon unicornis Forskål, Descr. Anim., 1775, p. 63. Red Sea.

Distrib.—Hawaii; Samoa; Aneiteum; Guam; Tahiti; Waigiu; New Guinea; Raiatea; East Indies; San Fabian; Nagasaki; Misaki, Sagami.

Genus *Xesurus* Jordan & Evermann.*Xesurus* Jordan & Evermann, Check List. Fishes, 1896, p. 421.Type *Prionurus punctatus* Gill.**630. *Xesurus scalprum* (Cuvier & Valenciennes).**

Nizadai or Sannojidai (Misaki, Sagami).

Acanthurus scalprum Langsdorf, Ms.

Prionurus scalprum Cuvier & Valenciennes, Hist. Nat. Poiss., X, 1835, p. 298.
Japan.

Distrib.—Tōkyō to Riukiu Is.

Genus *Hepatus* Gronow.

Hepatus Gronow, Zoophyl., 1763, p. 113.

Type *Tcuthis hepatus* Linnæus.

631. *Hepatus matoides* (Cuvier & Valenciennes).

Kuro-hagi.

Acanthurus matoides Cuvier & Valenciennes, Hist. Nat. Poiss., X, 1835, p. 204. Oualan.

Distrib.—Hawaii; Samoa; Fiji; Oualan; Bougainville I.; New Guinea; East Indies; Philippines; Misaki, Japan; Riukiu.

632. *Hepatus triostegus* (Linnæus).

Shima-hagi.

Chaetodon triostegus Linnæus, Syst. Nat., 10th ed., 1758, p. 274. India.

Distrib.—Samoa; Tahiti; New Guinea; Fiji; Fate; Rarotonga; Nukahiva; East Indies; Philippines; Misaki, Sagami; Riukiu Is.

633. *Hepatus dussumieri* (Cuvier & Valenciennes).

Kanran-hagi.

Acanthurus dussumieri Cuvier & Valenciennes, Hist. Nat. Poiss., X, 1835, p. 201. Ile de France.

Distrib.—New Guinea; Hawaii; East Indies; Zamboanga; southern Japan.

Genus *Ctenochætus* Gill.

Ctenochætus Gill, Proc. U. S. Nat. Mus., VII, 1884, pp. 277, 279.

Type *Acanthurus strigosus* Bennett.

634. *Ctenochætus striatus* (Quoy & Gaimard).

Sazanami-hagi.

Acanthurus striatus Quoy & Gaimard, Voy. Uranie., Zool, 1824, p. 373, pl. 63, fig. 3. Young; Guam.

Distrib.—South Seas; Hawaii; Zamboanga; Misaki, Sagami (young, Snyder ms.).

Family SIGAUIDÆ.**Genus Siganus** Forskål.

Siganus Forskal, Descr. Anim., X, 1775, p. 25.

Centrogaster Houttuyn, Acta Soc. Harlem., V, 1782, pp. 20, 333.
(*Centrogaster fuscescens* Houttuyn).

Type *Scarus siganus-riculatus* Forskål.

635. Siganus fuscescens (Houttuyn).

Aigo (Misaki, Sagami); Ginhagi; Kizino-uwo; Ae (Tosa).

Centrogaster fuscescens Houttuyn, Acta Soc. Haarl., XX, 1782, p. 333.
Nagasaki.

Amphacanthus albopunctatus Temminck & Schlegel, Fauna Japonica, Poiss.,
1845, p. 128. Nagasaki.

Amphacanthus aurantiacus Temminck & Schlegel, loc. cit., p. 128.
Nagasaki.

Distrib.—Palau Is.; Howland I.; Marcus I.; Philippines; Tōkyō to Nagasaki;
Formosa.

Family TRIACANTHODIDÆ**Genus Triacanthodes** Bleeker.

Triacanthodes Bleeker, Act. Soc. Sci. Indo. Nederl., III, 1857, Japan, IV, p. 37.

Type *Triacanthus anomalus* Temminck & Schlegel.

636. Triacanthodes anomalus (Temminck & Schlegel).

Beni-kawamuki.

Triacanthus anomalus Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p.
295, pl. CXXIX, fig. 3. Nagasaki.

Distrib.—Nagasaki; Misaki, Sagami; Kōchi, Tosa.

Family TRIACANTHIDÆ.**Genus Triacanthus** Cuvier.

Triacanthus Cuvier, Règne Anim., 1st ed., 1817, p. 152.

Type *Balistes biaculeatus* Bloch.

637. Triacanthus brevirostris Temminck & Schlegel.

Gin-kawamuki; Toge-hage.

Triacanthus brevirostris Temminck & Schlegel, Fauna Japonica, Poiss., 1850,
p. 294, pl. CXXIX, fig. 2. Nagasaki.

Distrib.—Nagasaki; Misaki, Sagami; Hamashima.

Family BALISTIDÆ.**Genus Balistes** (Artedi) Linnaeus.

Balistes Artedi, Genera, 1738, p. 53.

Balistes Linnaeus, Syst. Nat., 10th ed., 1758, p. 327.

Type *Balistes vetula* Linnaeus.

638. Balistes flavimarginatus Rüppell.

Ki-heri-mongara.

Balistes flavimarginatus Rüppell, Atlas Fische, 1828, p. 33. Red Sea.

Distrib.—Wakanoura ; Misaki, Sagami.

639. Balistes niger Park.

Mongara-kawahagi ; Komon-uwo.

Balistes niger Mungo Park, Trans. Linn. Soc., III, 1797, p. 37. Sumatra.

Balistes conspicillum Bloch & Schneider, Syst. Ichth., Bloch, 1801, p. 474.

Indian Seas. (After *Guaperva tacheté* of Sonnerat).

Distrib.—Nagasaki ; Kagoshima ; Kii ; Urakawa, Hokkaidō ; Bacon.

640. Balistes nigromarginatus (Tanaka).

Tsumaguro-mongara.

Pachynathus nigromarginatus Tanaka, Journ. Sci. Coll. Imp. Univ. Tokyo,

XXIII, Art. 7, March 15, 1908, p. 39, pl. I, fig. 4. Misaki, Sagami.

Distrib.—Misaki, Sagami.

641. Balistes capistratus Shaw.

Megane-hagi.

Le Baliste bridé Lacépède, Hist. Nat. Poiss., I, 1798, p. 335. Without locality.

On a drawing by Commerson.

Balistes capistratus Shaw, Genl. Zool., V, 1804, p. 417. After Lacépède.

Distrib.—Hawaii ; Nukahiva ; East Indies ; Riukiu Is. ; Wakanoura.

Genus Canthidermis Swainson.

Canthidermis Swainson, Class'n. Anim., 1839, II, p. 325.

Type *Balistes angulosus* Quoy & Gaimard = *B. maculatus* Gmelin.

642. Canthidermis rotundatus (Procé).

Ami-mongara.

Balistes rotundatus Procé, Bull. Soc. Philom., 1822, p. 130. Manila.

Distrib.—East Indies ; Riukiu Is ; Misaki, Sagami (Snyder ms.).

Family MONACANTHIDÆ.

Genus *Monacanthus* Cuvier.

Monacanthus Cuvier, Règne Animal, 1st ed., 1817, p. 152.

Type *Balistes chinensis* Osbeck.

643. *Monacanthus cirrhifer* Temminck & Schlegel.

Kawahagi (Misaki, Sagami) ; Mahagi ; Kawamuki ; Hage (Tosa).

Monacanthus cirrhifer Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 290, pl. CXXX, fig. 1. Nagasaki.

Monacanthus komuki Bleeker, Verh. Ak. Wet., I, 1853, p. 13, fig. 1. Kaminoseki.

Distrib.—Tōkyō to Nagasaki.

644. *Monacanthus japonicus* Tilesius. (Fig. 154).

Yosogi.

Monacanthus japonicus Tilesius, Mém. Soc. Moscou, II, 1801, pl. XIII. Japan.

Monacanthus trachyderma Bleeker, Act. Soc. Sci. Indo. Néerl., VIII, Japan, 1860, VI, p. 70. Nagasaki.

Distrib.—Southern Japan ; Nagasaki.

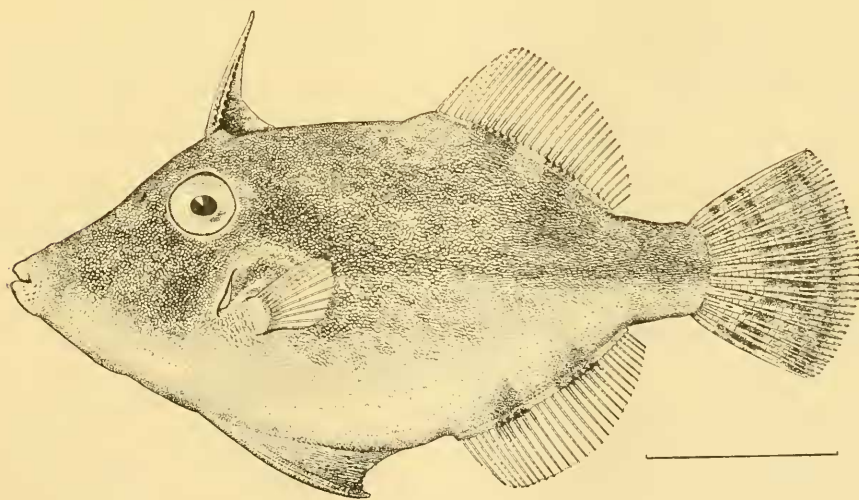


Fig. 154.

645. *Monacanthus oblongus* Temminck & Schlegel. (Fig. 155).**Naga-hagi.***Monacanthus oblongus* Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 291, pl. CXXX, fig. 2. Nagasaki.*Monacanthus brocki* Bleeker, Act. Soc. Sci. Indo-Nederl., III, Japan, IV, 1857, p. 35, fig. 2. Nagasaki.

Distrib—Nagasaki.

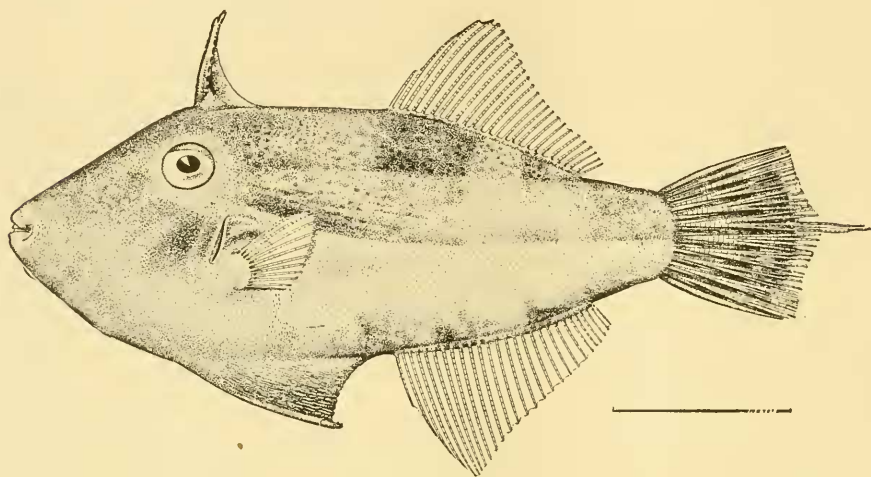


Fig. 155.

646. *Monacanthus chinensis* (Osbeck).**Morokoshi-hagi.***Balistes chinensis* Osbeck, Iter Chinensis, 1857, p. 147. China.

Distrib.—New Guinea ; East Indies ; China ; Riukiu Is.; ?Japan proper.

Genus *Cantherines* Swainson.*Cantherines* Swainson, Nat. Hist. Fishes, etc., II, 1839, p. 327.Type *Cantherines nasutus* Swainson = *Balistes sandwichensis* Quoy & Gaimard.**647. *Cantherines modestus* (Günther). (Fig. 156).****Umadsura-hagi.***Monacanthus oblongus* Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 291. Nagasaki (in part, description of adults, not figures).*Monacanthus modestus* Günther, Ann. Mag. Nat. Hist., 1877, p. 446. Inland Sea of Japan.

Monacanthus poljakowi Herzenstein, Ann. Mus. Zool. Ac. St. Petersburg, 1896, p. 98. Yokohama.

Monacanthus maximowiczii Herzenstein, Annulaire Mus. Zool. Ac. St. Petersburg, 1896, p. 9. Hakodate.

Distrib.—Otaru to Nagasaki.

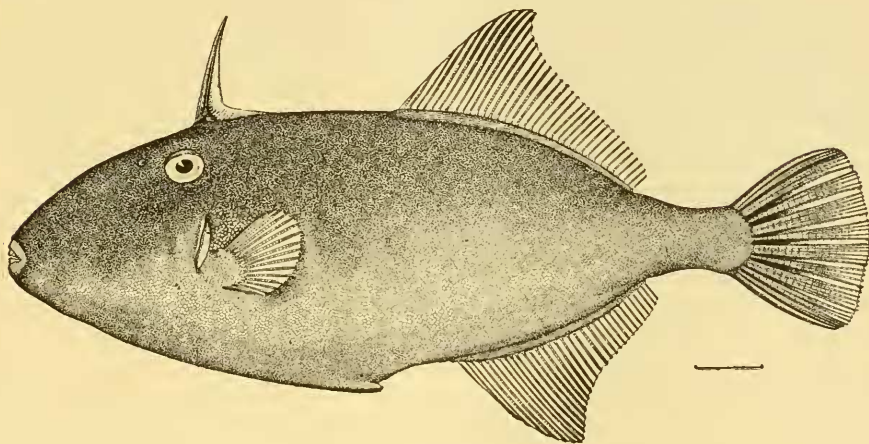


Fig. 156.

Genus *Rudarius* Jordan & Fowler.

Rudarius Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1902, p. 270.

Type *Rudarius ercodes* Jordan & Fowler.

648. *Rudarius ercodes* Jordan & Fowler. (Fig. 157).

Amime-hagi.

Rudarius ercodes Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1902, p. 270, fig. 4. Misaki, Sagami.

Distrib.—Tōkyō to Nagasaki.

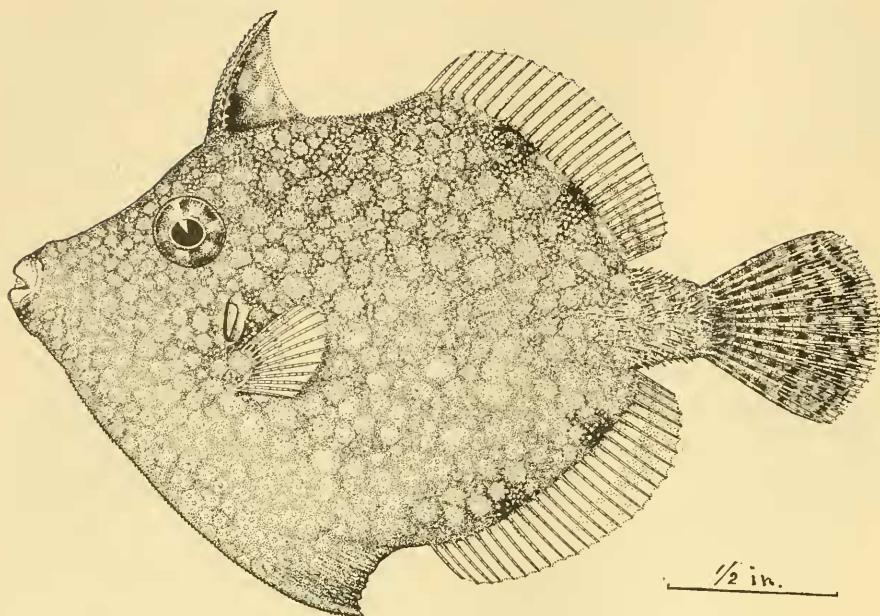


Fig. 157.

Genus *Brachaluteres* Bleeker.

Brachaluteres Bleeker, Ned. Tyds. Dierk., III, 1866, p. 13.

Type *Alcuterius trossulus* Richardson.

649. *Brachaluteres ulvarum* Jordan & Snyder. (Fig. 158).

Aosa-hagi.

Brachaluteres ulvarum Jordan & Snyder, in Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1902, p. 271, fig. 5. Misaki, Sagami.

Distrib.—Misaki, Sagami.

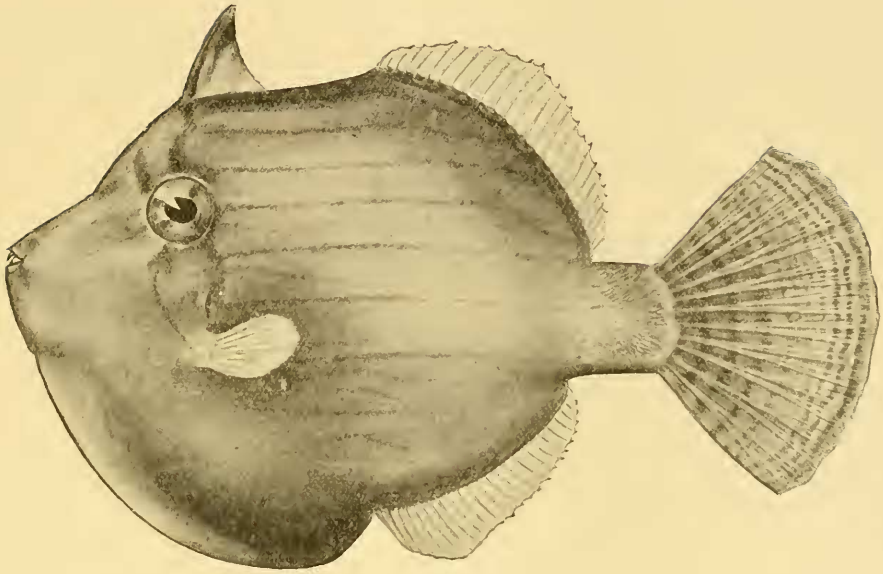


Fig. 158.

Genus *Paraluteres* Bleeker.

Paraluteres Bleeker, Atlas Ichth., V, 1865-1869, p. 138.

Type *Alutarius prionurus* Bleeker.

650. *Paraluteres prionurus* (Bleeker). (Fig. 159).

Nokogiri-hagi.

Alutarius prionurus Bleeker, Verh. Bat. Gen. Balist., XXIV, 1852, p. 20, pl. III, fig. 6. East Indies.

Distrib.—New Guinea ; East Indies ; Wakanoura.

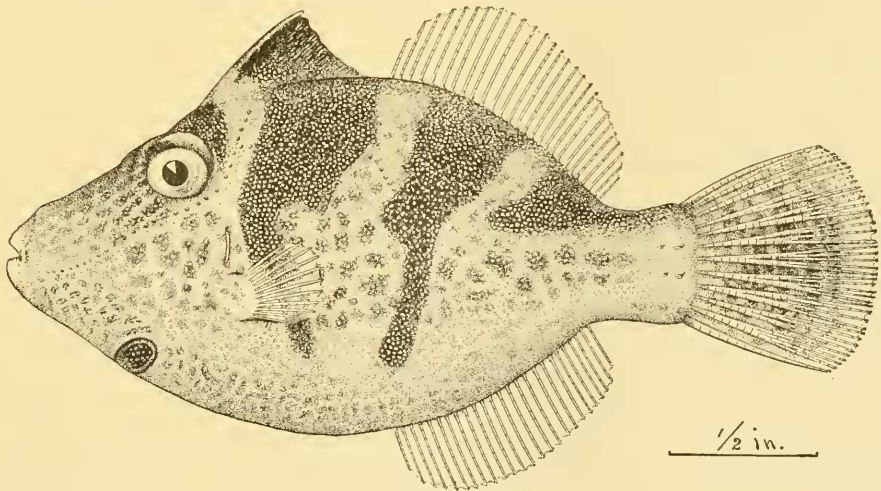


Fig. 159.

Genus *Alutera* Cuvier.

Les Alutères Cuvier, Règne Anim., 1st ed., 1817, p. 153.

Type *Balistes monoceros* Osbeck.

651. *Alutera monoceros* (Osbeck).

Nagasaki-ikkaku-hagi.

Capriscus murium dentibus minutis Klein, Ichth. Missus, III, 1742, p. 25, pl. III, fig. 9. No locality.

Balistes monoceros Osbeck, Iter Chinensis, 1757, p. 110. China.

Alutera cinerea Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 292, pl. CXXXI, fig. 1. Nagasaki.

Monacanthus monoceros Günther, Cat. Fish., VIII, 1870, p. 251. Zanzibar ; Pinang ; Amboyna ; China ; Japan.

Distrib.—Hawaii ; New Guinea ; East Indies ; Manila ; Nagasaki ; Tōkyō.

Genus *Osbeckia* Jordan & Evermann.

Osbeckia Jordan & Evermann, Check List Fishes N.A., 1896, p. 424.

Type *Balistes scriptus* Osbeck.

652. *Osbeckia scripta* (Osbeck).

Sōshi-hagi.

Balistes scriptus Osbeck, Iter Chin., I, 1757, p. 144. China.

Distrib.—China ; Hawaii ; New Guinea ; East Indies ; west coast islands of Mexico ; Jolo ; Nagasaki.

Genus *Pseudaluteres* Bleeker.

Pseudaluteres Bleeker, Ned. Tyds. Dierk., III, 1865, p. 28.

Type *Alutera nasicornis* Temminck & Schlegel.

653. *Pseudaluteres nasicornis* (Temminck & Schlegel).

Hana-tsuno-hagi.

Alutera nasicornis Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 223, pl. CXXXI, fig. 2. Nagasaki.

Distrib.—East Indies ; Japan.

Family OSTRACIDÆ.**Genus *Ostracion* Linnæus.**

Ostracion Linnæus, Syst. Nat., 10th ed., 1758, p. 330.

Lactoria Jordan & Fowler, Proc. U.S. Nat. Mus., XXV, 1902, p. 278.
(*Ostracion cornutus* Linnæus).

Type *Ostracion cubicus* Linnæus.

654. *Ostracion gibbosum* Linnæus.

Rakuda-hakofugu.

Ostracion gibbosus Linnæus, Syst. Nat., 10th ed., 1758, p. 331. India.

Distrib.—East Indies ; Cavite ; Jolo ; Kaminoseki ; Misaki, Sagami.

655. *Ostracion immaculatum* Temminck & Schlegel.

Hakofugu (Misaki, Sagami).

Ostracion immaculatus Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 296. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

656. *Ostracion diaphanum* Bloch & Schneider.

Umi-suzume.

Ostracion diaphanus Bloch & Schneider, Syst. Ichth., 1801, p. 501. No locality.

Ostracion brevicornis Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 297, pl. CXXX, fig. 3. Nagasaki.

Distrib.—East Indies ; Nagasaki ; Misaki, Sagami.

657. *Ostracion cornutum* Linnæus.

Kongō-fugu ; Umisuzume (Misaki, Sagami).

Ostracion cornutus Linnæus, Syst. Nat., 10th ed., 1758, p. 331. India.

Distrib.—East Indies ; Cavite ; Negros ; Misaki, Sagami ; Nagasaki.

Genus *Lactophrys* Swainson.

Lactophrys Swainson, Nat. Hist. Class'n Fishes, II, 1838, pp. 194, 324.

Type *Ostracion trigonus* Linnæus.

658. *Lactophrys tritropis* Snyder.

Hama-fugu.

Lactophrys tritropis Snyder, Proc. U.S. Nat. Mus., XL, 1911, p. 535. Misaki, Sagami.

Distrib.—Misaki, Sagami.

Genus *Aracana* Gray.

Aracana Gray, Ann. Nat. Hist., I, 1838, p. 110.

Type *Ostracion auritus* Shaw.

659. Aracana aculeata (Houttuyn).

Itomakifugu ; Kawago-fugu.

Ostracim aculeatus Houttuyn, Verh. Holl. Maats. Wet. Haarlem., XX, pt. 2, 1782, p. 346. Nagasaki.*Ostracion hexagonus* Thunberg, Vet. Ac. Nya Hyndl., XI, 1790, p. 107, pl. II. Japan.*Ostracion stictonotus* Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 297, pl. CXXXI, fig. 3. Nagasaki.

Distrib.—Misaki, Sagami ; Sagami Bay ; Suruga Bay ; Nagasaki.

Family TRIODONTIDÆ.**Genus Triodon** Reinwardt.*Triodon* Reinwardt, Cuvier, Règne Anim., 2d ed., 1829, p. 588.Type *Triodon bursarius* Reinwardt.**660. Triodon bursarius** Reinwardt.

Uchiwa-fugu (Misaki, Sagami).

Triodon bursarius Reinwardt, Cuvier, Règne Animal, 2d ed., 1829, p. 588. Sumatra.

Distrib.—East Indies ; Misaki, Sagami.

Family TETRAODONTIDÆ.**Genus Spheroides** Lacépède.*Crayracion* Klein, Missus, 1742. (*Tetrodon spengleri* Bloch ; nonbinomial).*Les spheroides* Lacépède, Hist. Nat. Poiss., II, 1798, p. 1. (French name only ; *tuberculé*).*Spheroides* Duméril, Zoologie Analytique, 1806, p. 342. (*Spheroides tuberculatus* Lacépède (Pillot edition)=*Tetrodon spengleri* Bloch, from a drawing showing a front view).**661. Spheroides inermis** (Temminck & Schlegel).

Kanabuku.

Tetrodon inermis Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 278, pl. CXXII, fig. 2. Shimabara.

Distrib.—Shimabara, Kiusiu.

662. Spheroides spadiceus (Richardson).

Saba-fugu ; Ginfugn (Misaki, Sagami).

Tetrodon spadiceus Richardson, Voy. Sulphur, Ichth., 1844, p. 123, pl. LVIII, figs. 4, 5. Canton.

Distrib.—East Indies, north to Japan ; Canton.

663. Spheroides scleratus (Forster).

Sennin-fugu.

Tetraodon scleratus (Forster) Gmelin, Syst. Nat., 1788, p. 1444. Atlantic and Pacific oceans.*Tetraodon bicolor* Brevoort, Exped. Japan, 1856, p. 283. Shimoda.

Distrib.—East Indies ; Shimoda, Idsu to Kagoshima ; Tahiti ; New Guinea ; Philippine Islands.

664. Spheroides alboplumbeus (Richardson).

Komon-fugu (Misaki, Sagami) ; Nagoya-fugu ; Komon-buku.

Tetraodon alboplumbeus Richardson, Voy. Sulphur, Ichth., 1844, p. 121, pl. LVIII, figs. 6, 7. Canton.*Tetraodon paxilonotus* Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 279, pl. CXXIV, fig. 2. Nagasaki.*Tetraodon nivicatus* Brevoort, Japan. Fish., 1856, p. 284. Shimoda.

Distrib.—Aomori to Nagasaki.

665. Spheroides ocellatus (Osbeck).

Mefugu.

Tetraodon ocellatus Osbeck, Iter Chinensis, 1757, p. 226. Canton.

Distrib.—China ; Japan.

666. Spheroides rubripes (Temminck & Schlegel).

Torafugu (Misaki, Sagami) ; Mafugu ; Yanagifugu.

Tetraodon rubripes Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 284, pl. CXXIII, fig. 1. Nagasaki.

Distrib.—Tōkyō to Nagasaki ; China.

667. Spheroides xanthopterus (Temminck & Schlegel).

Shimafugu.

Tetraodon xanthopterus Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 284, pl. CXXV, fig. 1. Nagasaki.

Distrib.—Nagasaki.

668. Spheroides vermicularis (Temminck & Schlegel).

Shōsaifugu ; Nagoya-fugu (Misaki, Sagami).

Stachelloser Auflaser aus Nagasaki Krusenstern, Reise, Atlas, pl. LI, fig. 1.*Tetraodon vermicularis* Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 278, pl. CXXIV, fig. 1. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

669. *Spheroides stictonotus* (Temminck & Schlegel). (Fig. 160).

Goma-fugu.

Tetraodon stictonotus Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 280, pl. CXXVI, fig. 1. Nagasaki.

Distrib.—Hakodate ; Misaki, Sagami ; Nagasaki.

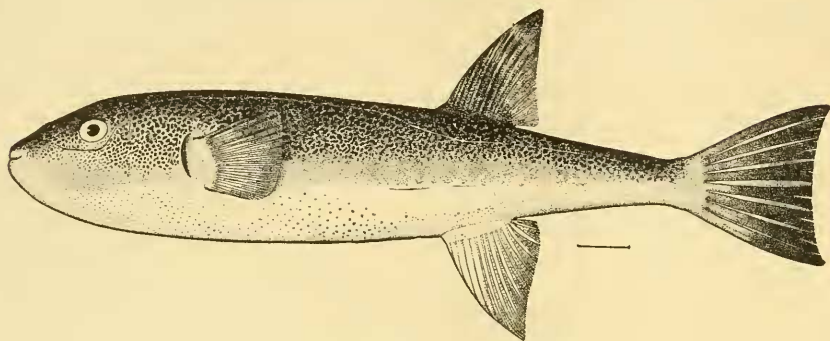


Fig. 160.

670. *Spheroides pardalis* (Temminck & Schlegel).

Higan-fugu (Misaki, Sagami).

Tetraodon pardalis Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 282, pl. CXXIII, fig. 2. Nagasaki.

Distrib.—Hakodate to Nagasaki.

671. *Spheroides abbotti* Jordan & Snyder. (Fig. 161).

Okina-komonfugu.

Spheroides abbotti Jordan & Snyder, Proc. U.S. Nat. Mus., XXIV, 1901, p. 240, fig. 3. Tōkyō Bay.

Distrib.—Tōkyō Bay.

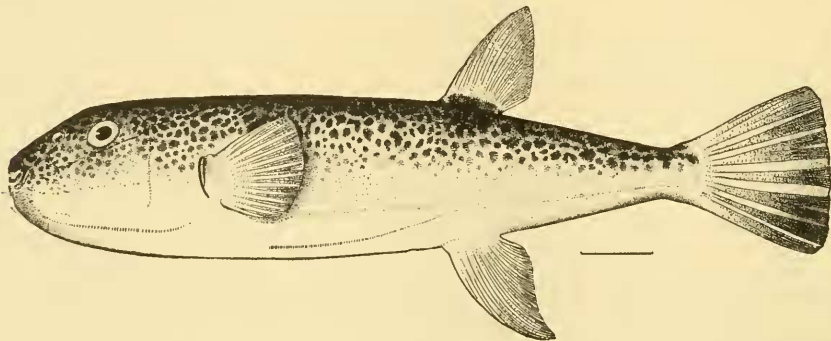


Fig. 161.

672. *Spheroides borealis* Jordan & Snyder. (Fig. 162).

Ōshū-fugu.

Spheroides borealis Jordan & Snyder, Proc. U.S. Nat. Mus., XXIV, 1901, p. 245, fig. 5. Mororan, Hokkaidō.

Distrib.—Otaru to Matsushima.

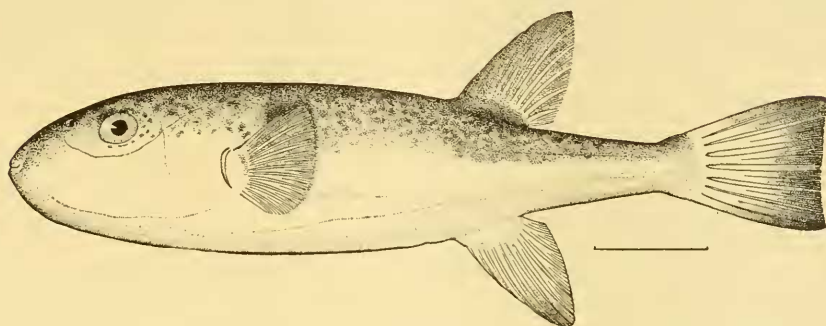


Fig. 162.

673. *Spheroides exascurus* Jordan & Snyder. (Fig. 163).

Mushi-fugu.

Spheroides exascurus Jordan & Snyder, Proc. U.S. Nat. Mus., XXIV, 1901, p. 241, fig. 4. Misaki, Sagami.

Distrib.—Misaki, Sagami.

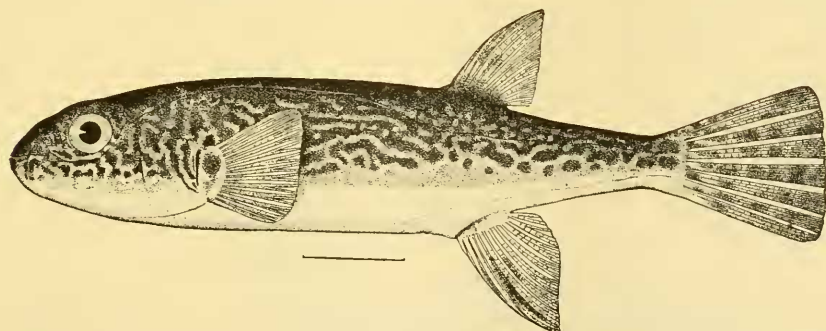


Fig. 163.

674. *Spheroides niphobles* Jordan & Snyder. (Fig. 164).

Kusafugu ; Shōsai-fugu (Misaki, Sagami).

Spheroides niphobles Jordan & Snyder, Proc. U.S. Nat. Mus., XXIV, 1901, p. 246, fig. 6. Tōkyō.

Distrib.—Tōkyō to Nagasaki.

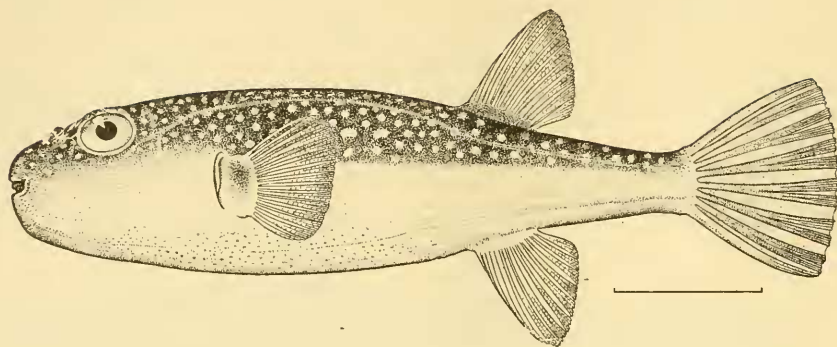


Fig. 164.

675. *Spheroides richiei* (Fremenville).

Nagoya-fugu.

Tetrodon richiei Fremenville, Nouv. Bull. Philom., II, p. 250, pl. IV, fig. 2.

Distrib.—Coasts of Australia ; New Zealand ; Kagoshima.

676. *Spheroides porphyreus* (Temminck & Schlegel).

Namera-fugu ; Mafugu (Misaki, Sagami).

Tetraodon porphyreus Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 282, pl. CXXI, fig. 1. Nagasaki.

Distrib.—Misaki, Sagami ; Nagasaki.

677. *Spheroides chrysops* (Hilgendorf). (Fig. 165).

Akame-fugu (Misaki, Sagami).

Tetraodon chrysops Hilgendorf, Sitzber. Naturf. Freunde, May 20, 1879, p. 80. Tōkyō.

Distrib.—Misaki, Sagami.

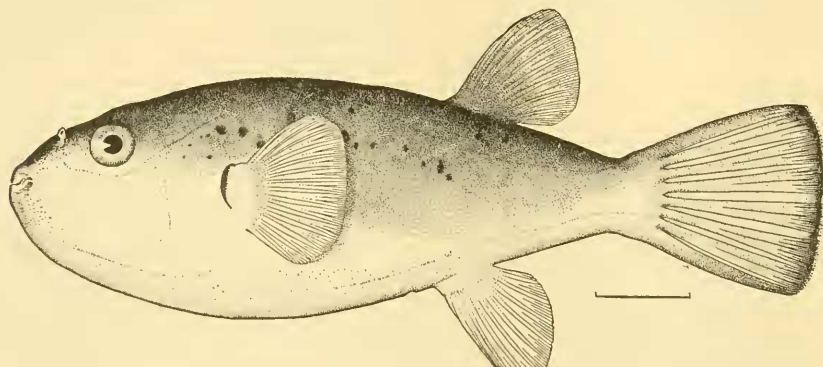


Fig. 165.

Genus *Tetraodon* Linnæus.*Tetraodon* Linnæus, Syst. Nat., 10th ed., 1758, p. 332.Type *Tetraodon lineatus* Linnæus.**678. *Tetraodon firmamentum* Temminck & Schlegel.**

Hoshifugu.

Tetraodon firmamentum Temminck & Schlegel, Fauna Japonica, Poiss., 1850,
p. 280, pl. CXXVI, fig. 2. Nagasaki.

Distrib.—Nagasaki.

679. *Tetraodon alboreticulatus* Tanaka.

Shiro-ami-fugu.

Tetraodon alboreticulatus Tanaka, Journ. Coll. Sci. Imp. Univ. Tokyo, XXIII,
Art. 7, March 15, 1908, p. 42, pl. 1, fig. 5. Misaki, Sagami.

Distrib.—Misaki, Sagami.

680. *Tetraodon aerostaticus* (Jenyns).

Moyō-fugu (Misaki, Sagami).

Tetraodon aerostaticus Jenyns, Voy. Beagle, 1842, p. 152. Locality unknown.

Distrib.—East Indies ; Nagasaki ; Honmoku near Yokohama.

Genus *Canthigaster* Swainson.*Canthigaster* Swainson, Class. Fish., etc., I, 1839, p. 194.*Psilonotus* Swainson, l.c., II, p. 328 (*rostratus*) (substitute name).Type *Tetraodon rostratus* Bloch.**681. *Canthigaster rivulatus* (Temminck & Schlegel).**

Kitamakura ; Yokofugu ; Kinchakufugu.

Tetraodon rivulatus Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p.
285, pl. CXXIV, fig. 3. Nagasaki.*Tetraodon grammatocephalus* Temminck & Schlegel, Fauna Japonica, Poiss.,
1850, p. 286, pl. CXXVI, fig. 3. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

682. *Canthigaster jactator* (Jenkins).

Goban-fugu.

Tropidichthys jactator Jenkins, Bull. U.S. Fish Commission, 1901, p. 399, fig.
11. Honolulu.

Distrib.—Hawaiian Islands ; Misaki, Sagami (Snyder ms.).

Family DIODONTIDÆ.**Genus Diodon** Linnæus.

Diodon Linnæus, Syst. Nat., 10th ed., 1758, p. 335.

Paradiodon Bleeker, Atlas Ichth., Gymnodontes, 1867, p. 56. (*Diodon hystrix* Linnæus).

Type *Diodon hystrix* Linnæus.

683. Diodon holacanthus Linnæus.

Harisenbon (Misaki, Sagami); Yatsume-fugu; Harifugu.

Ostracion oblongus holacanthus Artedi, Genera, 1738, 60, No. 20. India.

Diodon holacanthus Linnæus, Syst. Nat., 10th ed., 1758, p. 335. After Artedi.

Distrib.—Laysan; Sulu Sea; Nagasaki to Misaki, Sagami; all warm seas.

Genus Chilomycterus Bibron.

Chilomycterus Bibron, in Barneville, Revue Zoologique, 1846, p. 140.

Type *Chilomycterus reticulatus* Bibron, not of Linnæus = *Diodon tigrinus* Cuvier.

684. Chilomycterus affinis Günther.

Ishigaki-fugu (Misaki, Sagami).

Chilomycterus affinis Günther, Cat. Fish., VIII, 1870, p. 314. Locality unknown.

Distrib.—Hawaii; Lower California; Galapagos Is.; Tōkyō to Nagasaki.

Family MOLIDÆ.**Genus Mola** Linck.

Mola Linck, Magazin neueste Physik. Naturgeschichte, 1790, p. 37.

Type *Tetraodon mola* Linnæus.

685. Mola mola (Linnæus).

Manbō (Misaki, Sagami); Ukigi.

Ostracion cathcoplatus subrotundus Artedi, Genera, 1738, p. 61.

Tetraodon mola Linnæus, Syst. Nat., 10th ed., 1758, pp. 334, 412. Mediterranean (after Artedi).

Distrib.—Warm seas; occasionally northward to Tōkyō, England, Cape Cod, and San Francisco.

Genus Ranzania Nardo.

Ranzania Nardo, Ann. Sci. Regn. Lombard., Venet., V, 1840, pp. 10, 105.

Type *Tetrodon truncatus* Retzius.

686. *Ranzania makua* Jenkins. (Fig. 166).

Kusabi-fugu.

Ranzania makua Jenkins, Proc. Cal. Ac. Sci., 2d ser., V, October 31, 1895,
pp. 780, 784, with colored plate. Pearl Harbor near Honolulu.

Distrib.—Hawaii ; “ off the Sea of Akabane in Mikawa.”

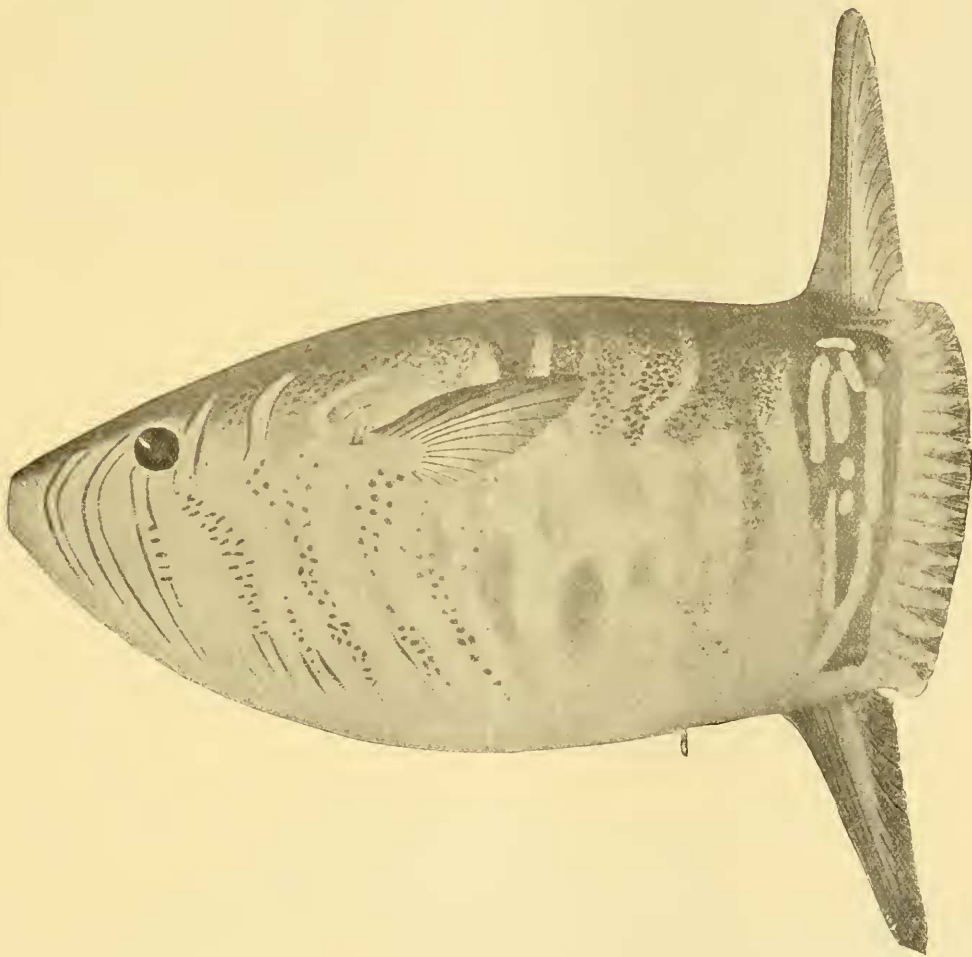


Fig. 166.

Family SCORPÆNIDÆ.

Genus Sebastolobus Gill.

Sebastolobus Gill, Report, Smithsonian Institution, 1880, p. 375 (1881).

Type *Sebastes microchir* Günther.

687. Sebastolobus macrochir (Günther).**Bara-menuke.***Sebastes macrochir* Günther, Shore Fishes Challenger, 1880, p. 65, pl. XXVII.

Off Enoshima in 345 fathoms.

Distrib.—Enoshima ; Manadsuru.

Genus Sebastodes Gill.*Sebastodes* Gill, Proc. Ac. Nat. Sci. Phila., 1861, p. 165.*Emmelas* Jordan & Evermann, Fish. N. and M. Amer., 1898, p. 1777-(*Sebastes glaucus* Hilgendorf).Type *Sebastes paucispinis* Ayres.**688. Sebastodes glaucus** (Hilgendorf).**Kuro-menuke.***Sebastes glaucus* Hilgendorf, S. B. Ges. Naturf. Freunde, 1880, p. 170. Yezo.

Distrib.—Hokkaidō ; Bering Island.

689. Sebastodes inermis (Cuvier & Valenciennes).**Kuro-soi.***Sebastes inermis* Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 346.

Japan.

Sebastes ventricosus Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p.

48, pl. XX, figs. 1,2. Nagasaki.

Distrib.—Hakodate to Nagasaki ; Tsushima.

690. Sebastodes schlegelii (Hilgendorf). (Fig. 167).**Kuro-mebaru.**? *Sparus fuscescens* Houttuyn, Verh. Holl. Maats. Wet Haarlem., XX, pt. 2, 1872, p. 340. Nagasaki.*Sebastes inermis* Temminck & Schlegel, Fauna Japonica, Poiss., plate. Not of Cuvier & Valenciennes.*Sebastes schlegelii* Hilgendorf, S.B. Gesell. Naturf. Freunde, 1880, p. 171, with plate. Tōkyō ; Hakodate.*Sebastodes hakodatis* Jordan & Snyder, Proc. U.S. Nat. Mus., 1901, p. 361, pl. XIV. Hakodate.

Distrib.—Otaru to Nagasaki.

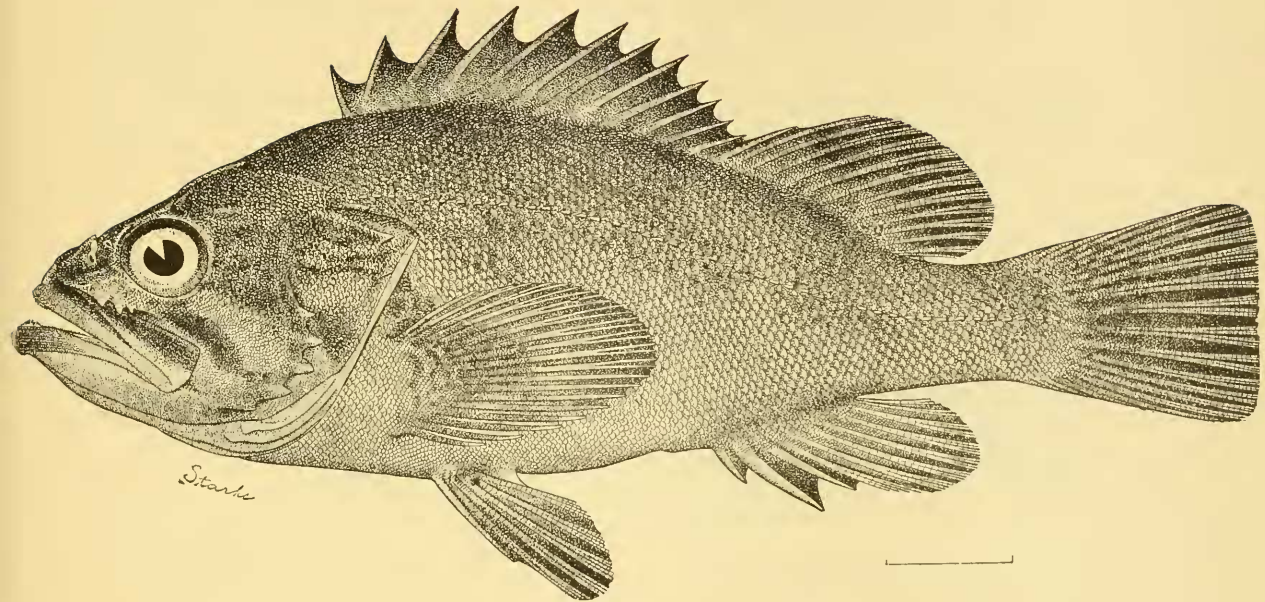


Fig. 167.

691. *Sebastes tokionis* Jordan & Starks. (Fig. 168).

Aka-metaru.

Sebastes tokionis Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 104, fig. 3. Misaki, Sagami.

Distrib.—Tōkyō to Wakanoura ; Tsuruga.

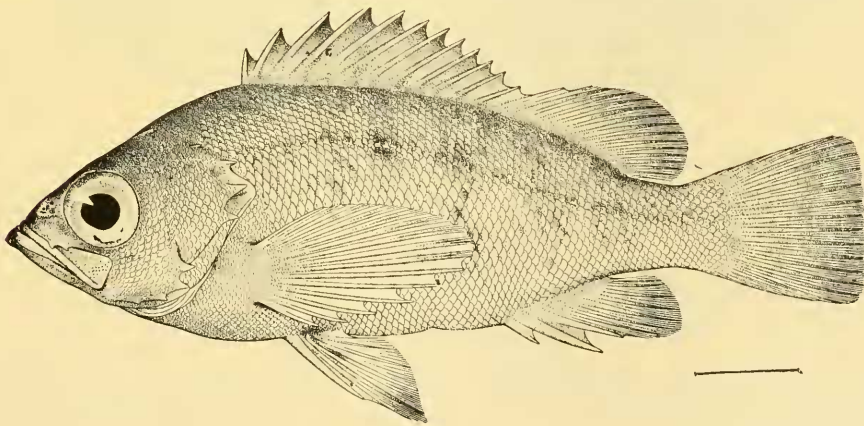


Fig. 168.

692. *Sebastes joyneri* (Günther).

Takeno'ko-mebaru.

Sebastes joyneri Günther, Ann. Mag. Nat. Hist., I, 1878, p. 485. Japan ;
Challenger Report, Shore Fishes, 1880, p. 64, pl. XXIX, fig. A.

Distrib.—Aomori to Tōkyō.

693. *Sebastes scythropus* Jordan & Snyder.

Ukeguchi-mebaru.

Sebastes scythropus Jordan & Snyder, Proc. U.S. Nat. Mus., XXIII, 1900, p.
360, pl. XV. Misaki, Sagami.

Distrib.—Misaki, Sagami ; Tōkyō.

694. *Sebastes güntheri* Jordan & Starks. (Fig. 169).

Mebaru.

Sebastes güntheri Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p.
102, fig. 2. Wakanoura.

Distrib.—Hakodate to Wakanoura.

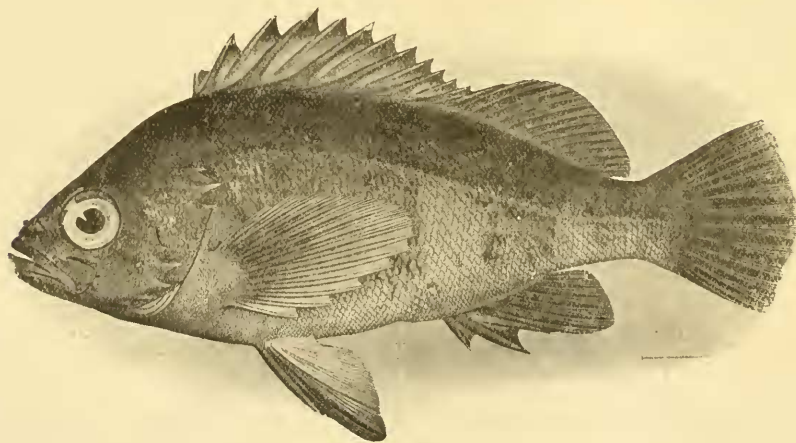


Fig. 169.

695. *Sebastes steindachneri* (Hilgendorf).

Yanagi-no-mai ; Akasoi.

Sebastes steindachneri Hilgendorf, S. B. Ges. Natur. Freunde, Berlin, 1880, p.
172, with plate. Yezo.

Distrib.—Hakodate.

696. *Sebastes itinus* Jordan & Starks. (Fig. 170).**Yanagi-mebaru.***Sebastes itinus* Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 99, fig. 1. Hakodate.

Distrib.—Hakodate.

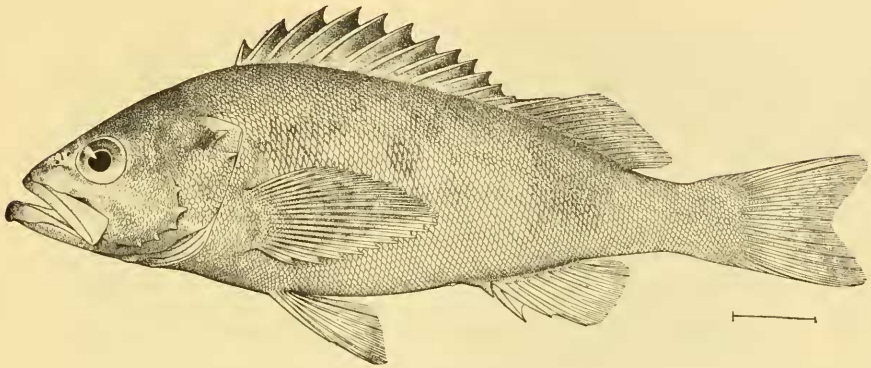


Fig. 170.

697. *Sebastes taczanowskii* (Steindachner).**Yezo-mebaru.**? *Epinephelus ciliatus* Tilesius, Mém. Ac. Sci. St. Petersb., IV, 1810, p. 474.
"Camtschaticus et Americanus;" no specific locality given, probably from about Kadiak.*Sebastes taczanowskii* Steindachner, Sitzb. Akad. Wiss. Wien., 1880, p. 256, pl. II, fig. 1. Bays of the Gulf of Strielok, near Vladivostok, Japan Sea.

Distrib.—Otaru ; Mororan ; Iwanai ; Aomori ; Same ; Iturup Island ; ? Kadiak.

698. *Sebastes flammens* Jordan & Starks.**Hi-mebaru.***Sebastes flammens* Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 108, fig. 21. Misaki, Sagami.

Distrib.—Misaki, Sagami.

699. *Sebastes matsubaræ* (Hilgendorf).**Akō.***Sebastes matsubaræ* Hilgendorf, Sitzb. Gesell. Naturf., Freunde, 1880, p. 170.
Hondo.

Distrib.—Misaki, Sagami.

700. *Sebastes iracundus* Jordan & Starks. (Fig. 171).**Itten-akō.***Sebastes iracundus* Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904,
p. 107, fig. 4. Kushiro, Hokkaidō.

Distrib.—Kushiro, Hokkaidō.

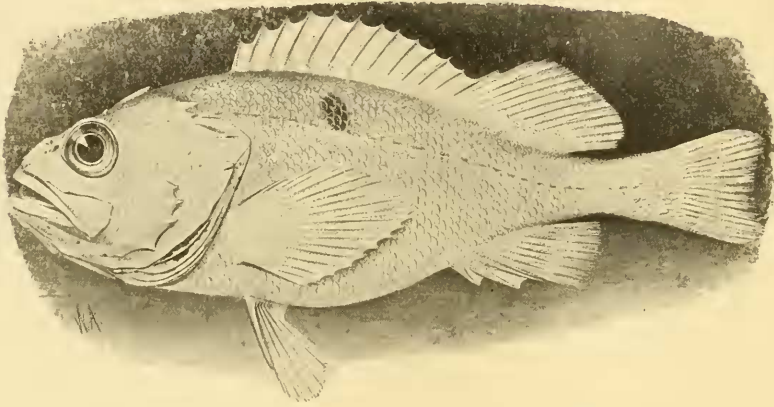


Fig. 171.

701. *Sebastes tanakæ* Snyder.**Matsumae-mebaru.***Sebastes tanakæ* Snyder, Proc. U.S. Nat. Mus., XL, 1911, p. 537. Hakodate.
Distrib.—Hakodate.**702. *Sebastes vulpes* (Steindachner & Döderlein).****Kitsune-mebaru.***Sebastes vulpes* Steindachner & Döderlein, Fische Japans, III, 1884, p. 203, pl.
II. Tōkyō.

Distrib.—Hakodate to Tōkyō.

Genus *Sebastichthys* Gill.*Sebastichthys* Gill, Proc. Ac. Nat. Sci. Phila., 1862, p. 329.Type *Sebastes nigrocinctus* Ayres.**703. *Sebastichthys pachycephalus* (Temminck & Schlegel).****Mura-soi.***Sebastes pachycephalus* Temminck & Schlegel, Fauna Japonica, Poiss., 1843,
p. 17, pl. XX, fig. 3. Nagasaki.

Distrib.—Wakunoura to Nagasaki.

704. Sebastichthys elegans (Steindachner & Döderlein). (Fig. 172).

Yoroi-mebaru.

Sebastes elegans Steindachner & Döderlein, Fische Japans, III, 1884, p. 205.

Tagawa, in the Inland Sea of Japan.

Distrib.—Misaki, Sagami to Nagasaki.

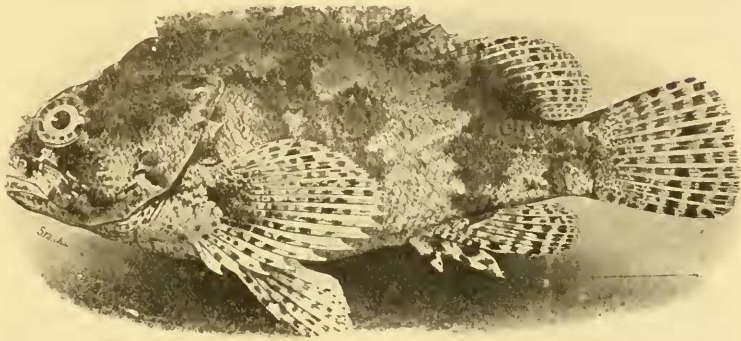


Fig. 172.

705. Sebastichthys oblongus (Günther).

Naga-mebaru.

Sebastes oblongus Günther, Challenger Report Shore Fishes, 1880, p. 64, pl.

XXVIII. Inland Sea, Japan ; Yokohama.

Distrib.—Inland Sea, Japan ; Yokohama.

706. Sebastichthys mitsukurii (Cramer).

Mitsukuri-mebaru.

Sebastes oblongus (var.?) Steindachner & Döderlein, Fische Japans, III, 1884, p. 204. Tōkyō.

Sebastes mitsukurii Cramer, in Jordan & Evermann, Fish. North and Middle America, II, 1898, p. 131. Tōkyō (based on the description given by Steindachner & Döderlein).

Distrib.—Hakodate to Nagasaki.

707. *Sebastichthys nivosus* (Hilgendorf).**Gomasoi ; Keshimuyo.***Sebastes nivosus* Hilgendorf, S. B. Gesell. Naturf. Freunde, Berlin, 1880, p. 171. Japan.

Distrib.—Same ; Misaki, Sagami.

708. *Sebastichthys trivittatus* (Hilgendorf). (Fig. 173).**Shima-soi.***Sebastes trivittatus* Hilgendorf, S. B. Gesell. Naturf. Freunde, Berlin, 1880, p. 171, with plate. Yezo, Japan.

Distrib.—Hakodate ; Kushiro ; Aomori.

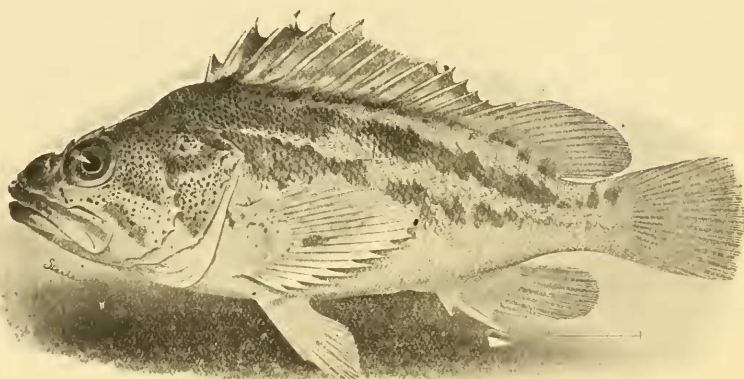


Fig. 173.

Genus *Sebastosemus* Gill.*Sebastosemus* Gill, Proc. U.S. Nat. Mus., XXVIII, 1905, p. 219.Type *Ncosebastes entaxis* Jordan & Starks.**709. *Sebastosemus entaxis* (Jordan & Starks). (Fig. 174).****Hire-naga-mebaru.***Ncosebastes entaxis* Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 120, fig. 7. Misaki, Sagami.

Distrib.—Chōshi, Shimōsa ; Misaki, Sagami.

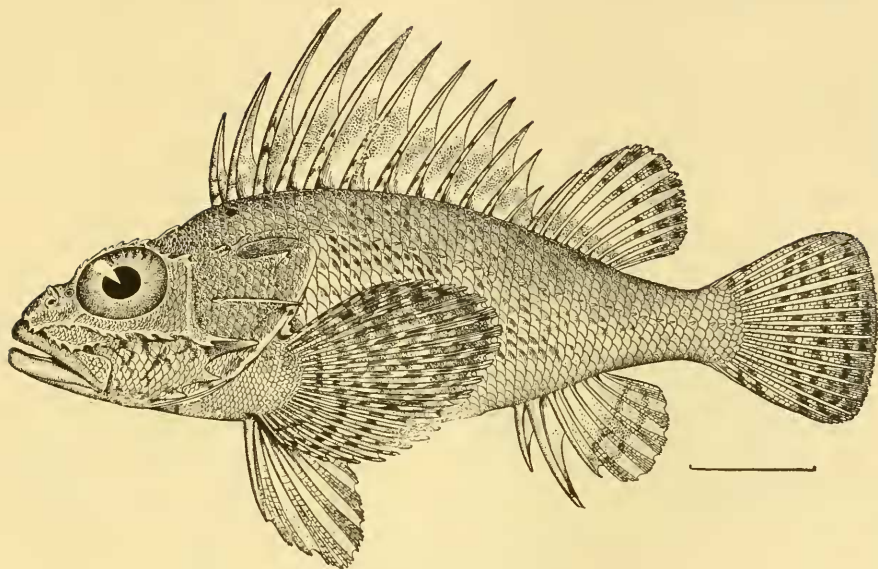


Fig. 174.

Genus *Sebastiscus* Jordan & Starks.

Sebastiscus Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 124.

Type *Sebastes marmoratus* Cuvier & Valenciennes.

710. *Sebastiscus albofasciatus* (Lacépède).

Ayame-kasago (Misaki, Sagami).

Holocentrus albofasciatus Lacépède, Hist. Nat. Poiss., IV, 1802, p. 372.

Japan; from a specimen in Mus. Berlin.

Distrib.—Tōkyō to Nagasaki.

711. *Sebastiscus marmoratus* (Cuvier & Valenciennes).

Kasago; Hachi-kasago (Misaki, Sagami).

Sebastes marmoratus Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 345. Japan.

Sebastes crassispinus Döderlein, Fische, Japans, III, 1884, p. 32. Tōkyō.

Distrib.—Hakodate to Nagasaki.

Genus *Thysanichthys* Jordan & Starks.

Thysanichthys Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 122.

Type *Thysanichthys crossotus* Jordan & Starks.

712. *Thysanichthys crossotus* Jordan & Starks. (Fig. 175).**Fundō-kasago.**

Thysanichthys crossotus Jordan & Starks, Proc. U. S. Nat. Mus., XXVII,
1904, p. 123, fig. 8. Suruga Bay, off Ose Point, in 63 fathoms.
Distrib.—Suruga Bay.

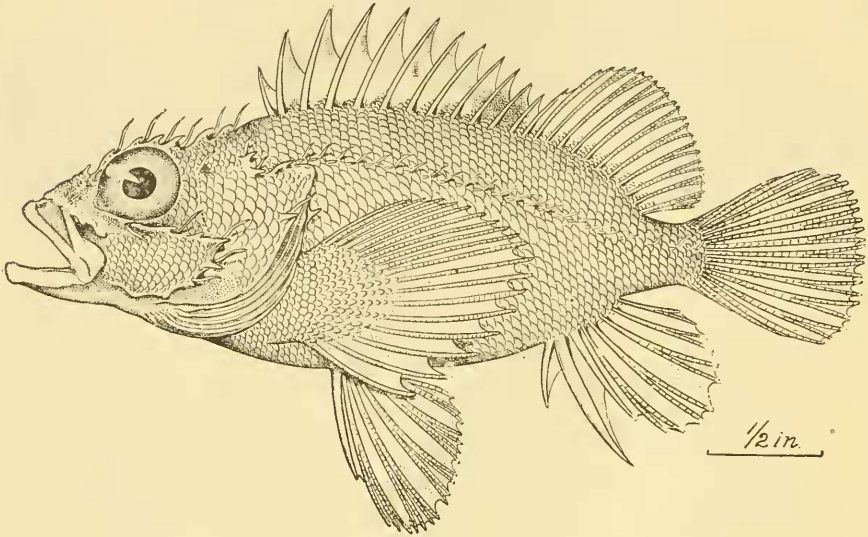


Fig. 175.

Genus *Helicolenus* Good & Bean.

Helicolenus Good & Bean, Oceanic Ichth., 1896, p. 248.

Type *Scorpaena dactyloptera* De La Roche.

713. *Helicolenus dactylopterus* (De La Roche).**Yume-kasago.**

Scorpaena dactyloptera De La Roche, Ann. Mus., XIII, 1809, pl. XXII, fig.
2. Ivica, Barcelona.

Sebastes hilgendorfi Döderlein, Fische Japans, IV, 1884, p. 34. Tōkyō.

Distrib.—Bōshū to Suruga Bay.

714. *Helicolenus emblemarius* Jordan & Starks. (Fig. 176).**Hata-kasago.**

Helicolenus emblemarius Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904,
p. 129, fig. 9. Okinose, near Misaki, Sagami.

Distrib.—Off Misaki, Sagami.

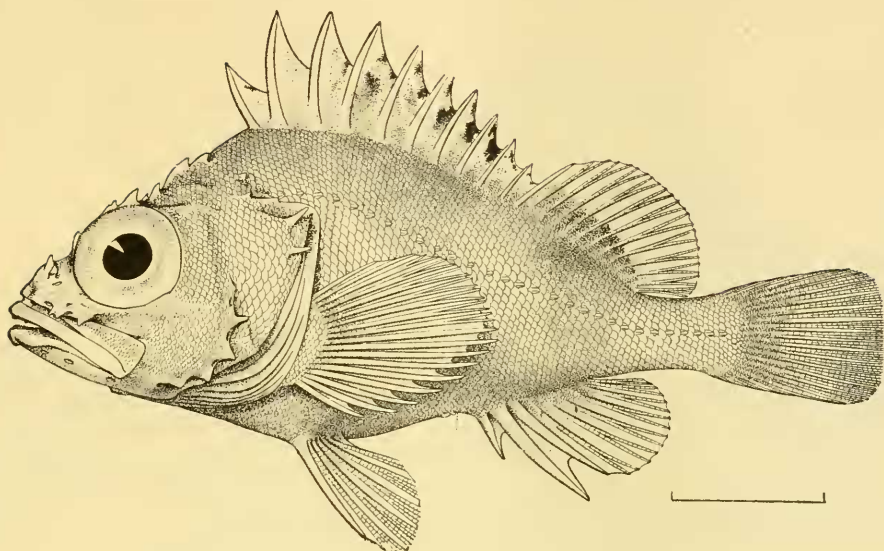


Fig. 176.

Genus *Scorpæna* (Artedi) Linnaeus.

Scorpæna Artedi, Genera, 1738, p. 47.

Scorpæna Linnaeus, Syst. Nat., 10th ed., 1758, p. 266.

Type *Scorpæna percus* Linnaeus.

715. *Scorpæna neglecta* Temminck & Schlegel. (Fig. 177).

Fusa-kasago.

Scorpæna neglecta Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 43, pl. XVII, fig. 4. Nagasaki.

Scorpæna fimbriata Steindachner & Döderlein, Fische Japans, III, 1884, p. 195. Off Tōkyō.

Scorpæna onaria Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 365. Misaki, Japan.

Distrib.—Tōkyō Market to Kōbe.

716. *Scorpæna izensis* Jordan & Starks. (Fig. 178).

Idsu-kasago.

Scorpæna izensis Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 134, fig. 10. Suruga Bay ; Tōtōmi Bay ; Sagami Bay.

Distrib.—Suruga Bay ; Sagami Bay ; Tōtōmi Bay.

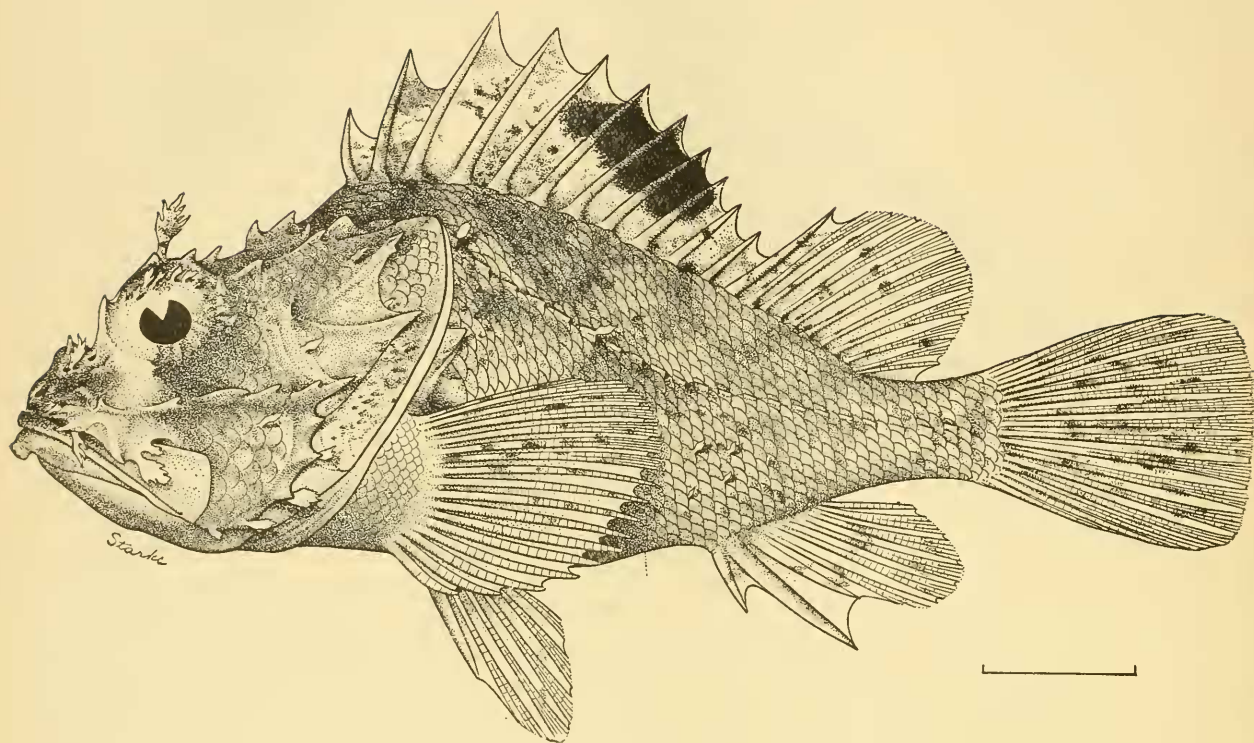


Fig. 177.



Fig. 178.

Genus *Scorpaenopsis* Heckel.

Scorpaenopsis Heckel, Ann. Wien. Mus., II, 1840, p. 159.

Scorpaenichthys Bleeker, Bijdr. Ichth. Boero, Nat. Tijds. Ned. Ind., XI, about 1862, p. 402. (*Perca cirrhosa* Thunberg).

Type *Scorpaena nesogallica* Cuvier & Valenciennes.

717. *Scorpaenopsis cirrhosa* (Thunberg).

Oni-kasago; Rokubu.

Perca cirrhosa Thunberg, Nya Handl., Stockholm, XIV, 1793, p. 199, pl. VII, fig. 2. Nagasaki.

Distrib.—Tahiti; New Guinea; East Indies; Panay; Misaki, Sagami; Nagasaki; Wakanoura.

718. *Scorpaenopsis miostoma* (Günther).

Hosokuchi-kasago.

Scorpaena miostoma Günther, Shore Fishes of the Challenger, 1880, p. 65. Yokohama.

Distrib.—Yokohama.

719. *Scorpaenopsis kagoshimana* (Steindachner & Döderlein).

Satsuma-kasago.

Scorpaena kagoshimana Steindachner & Döderlein, Fische Japans, III, 1884, p. 28; and in Fische Japans, IV, 1887, pl. III. Kagoshima.

Distrib.—Kagoshima.

Genus *Lythrichthys* Jordan & Starks.

Lythrichthys Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 140.

Type *Lythrichthys eulabes* Jordan & Starks.

720. *Lythrichthys eulabes* Jordan & Starks. (Fig. 179).

Aka-kasago.

Lythrichthys eulabes Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 140, fig. 11. Suruga Bay.

Distrib.—Suruga Bay.

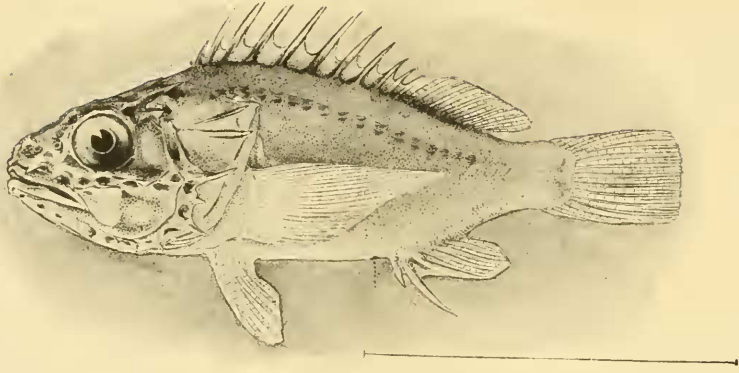


Fig. 179.

Genus *Setarches* Johnson.

Setarches Johnson, Proc. Zool. Soc. Lond., 1862, p. 177.

Bathysebastes Steindachner & Döderlein, Fische Japans, III, 1884, p. 207.
(*Bathysebastes albescens* Steindachner & Döderlein).

Type *Setarches güntneri* Johnson.

721. *Setarches albescens* (Steindachner & Döderlein).

Shiro-kasago.

Bathysebastes albescens Steindachner & Döderlein, Fische Japans, III, 1884,
p. 207. Tōkyō.

Distrib.—Misaki, Sagami; Tōtōmi Bay; Tōkyō.

Genus *Pterois* Cuvier.

Pseudomonopterus Klein, Missus. Pisces, V, 1756, p. 76 (nonbinomial)
(*Gasterosteus volitans* Linnæus).

Pseudopterus Klein, Same type.

Les Pterois Cuvier, Règne Animal, 1st ed., 1817, p. 286.

Type *Gasterosteus volitans* Linnæus.

722. *Pterois lunulata* Temminck & Schlegel.

Minokasago or Yamanokami (Misaki, Sagami).

Pterois lunulata Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 46,
pl. XV, Nagasaki.

Distrib.—Tōkyō to Nagasaki.

Genus *Dendrochirus* Swainson.*Dendrochirus* Swainson, Class. Anim., II, 1839, p. 180.Type *Pterois zebra* Cuvier & Valenciennes.**723. *Dendrochirus jordani* (Regan).**

Seto-minokasago.

Pterois jordani Regan, Ann. Mag. Nat. Hist., 1905, p. 20. Inland Sea of Japan.

Distrib.—Inland Sea of Japan.

Genus *Ebosia* Jordan & Starks.*Ebosia* Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 145.Type *Pterois bleekeri* Steindachner & Döderlein.**724. *Ebosia bleekeri* (Steindachner & Döderlein).**

Eboshi-kasago.

Pterois bleekeri Steindachner & Döderlein, Fische Japans, III, 1884, p. 32, pl. VI, fig. 1, 1a. Tōkyō.

Distrib.—Tōkyō.

725. *Ebosia starksi* Franz.

Iso-eboshi.

Ebosia starksi Franz, Abh. Bayer. Akad., 1910, p. 72, taf IX, fig. 69. Yokohama; Misaki, Sagami; Dzushi.

Distrib.—Sagami Sea.

Genus *Apistus* Cuvier.*Apistus* Cuvier, Règne Animal, 2d. ed., 1828, p. 72.Type *Apistus alatus* Cuvier & Valenciennes.**726. *Apistus evolans* Jordan & Starks. (Fig. 180).**

Hire-kasago; Hachi.

Apistus evolans Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 146, fig. 12. Tōkyō.

Apistus venenans Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 148, fig. 13. Nagasaki.

Distrib.—Tōkyō to Kagoshima.

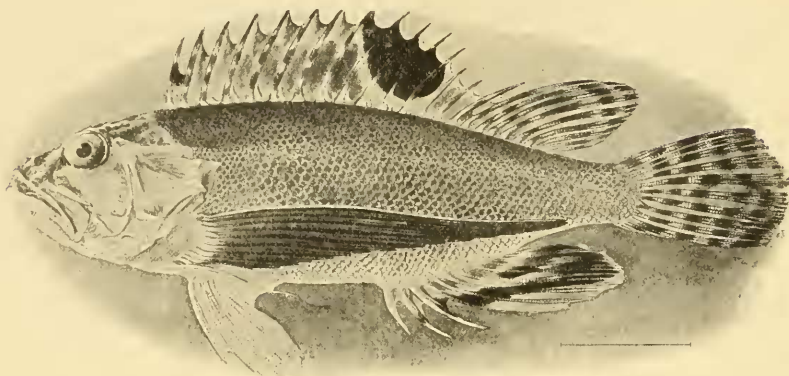


Fig. 180.

Lysodermus Smith & Pope.

Lysodermus Smith & Pope, Proc. U. S. Nat. Mus., XXXI, 1906, p. 483.

Type *Lysodermus satsumæ* Smith & Pope.

727. *Lysodermus satsumæ* Smith & Pope. (Fig. 181).

Nami-kasago.

Lysodermus satsumæ Smith & Pope, Proc. U. S. Nat. Mus., XXXI, 1906, p. 484, fig. 7. Kagoshima.

Distrib.—Kagoshima.

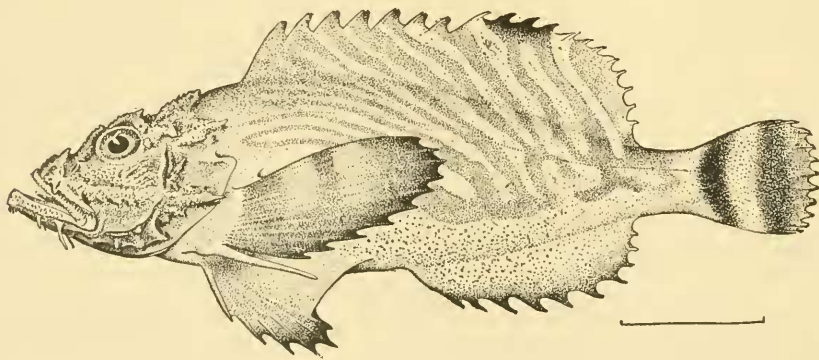


Fig. 181.

Genus Minous Cuvier & Valenciennes.

Minous Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 420.

Type *Minous toora* Cuvier & Valenciennes.

728. Minous adamsi Richardson.

Hime-okoze.

Minous adamsi Richardson, Voy. Samarang, 1850, p. 7, pl. II, figs. 4, 5. Sea of China.

Minous echigonius Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 153, fig. 14. Niigata, Echigo.

Distrib.—Wakanoura to Nagasaki ; Niigata ; China.

729. Minous inermis Alcock.

Ito-okoze.

Minous inermis Alcock, Jour. Asiatic Soc. Bengal, 1889, LVIII, pt. II, p. 299, plate 22, fig. 4. Bay of Bengal.

Distrib.—Bay of Bengal ; Misaki, Sagami (Franz).

Genus Decterias Jordan & Starks.

Decterias Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 154.

Type *Minous pusillus* Temminck & Schlegel.

730. Decterias pusillus (Temminck & Schlegel). (Fig. 182).

Yase-okoze.

Minous pusillus Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 50. Nagasaki.

Distrib.—Nagasaki ; Wakanoura.

Genus Erosa (Swainson) Jordan & Starks.

Erosa Swainson, Nat. Hist. Classn. Anim., II, 1839, p. 61 ; diagnosis, no reference to type, *Synanceia erosa* Langsdorf, understood from context.

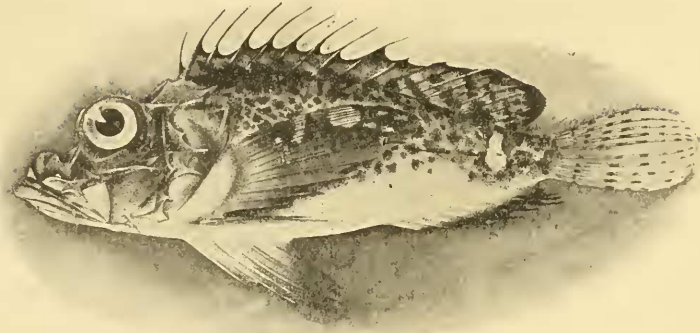


Fig. 182.

Erosa Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 156.
Type *Synanceia erosa* Langsdorf.

731. *Erosa erosa* (Langsdorf). (Fig. 183).

Daruma-okoze ; Takenoko ; Shish'-okoze (Misaki, Sagami).

Synanceia erosa Langsdorf, in Cuvier & Valenciennes, Hist. Nat. Poiss., IV,
1829, p. 459. Japan.

Distrib.—Misaki to Nagasaki.

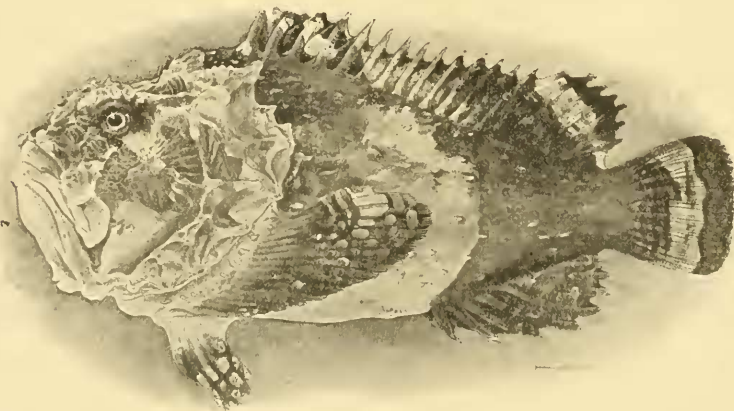


Fig. 183.

Genus *Inimicus* Jordan & Starks.

Inimicus Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 158.

Type *Pelor japonicum* Cuvier & Valenciennes.

732. *Inimicus japonicus* (Cuvier & Valenciennes).

Oni-okoze.

Pelor japonicum Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 437.
Japan.

?*Pelor aurantiacum* Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p.
44, pl. XVIII, fig. 1. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

Genus *Ocosia* Jordan & Starks.

Ocosia Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 162.

Type *Ocosia vespa* Jordan & Starks.

733. *Ocosia vespa* Jordan & Starks. (Fig. 184).

Hachi-okoze.

Ocosia vespa Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 162, fig.
17. Sagami Bay.

Distrib.—Sagami Bay.

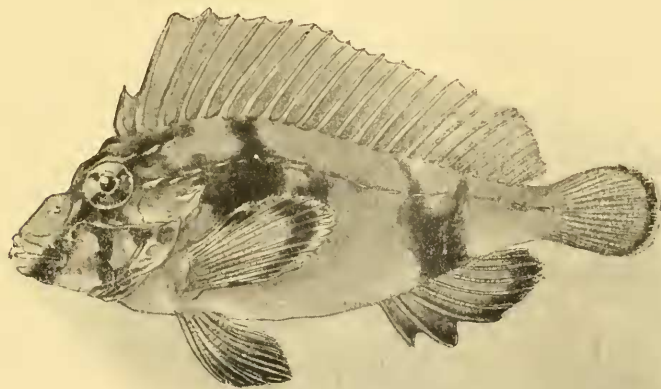


Fig. 184.

Genus *Snyderina* Jordan & Starks.*Snyderina* Jordan & Starks, Proc. Cal. Acad. Sci., 1901, p. 381.Type *Snyderina yamanokami* Jordan & Starks.**734. *Snyderina yamanokami* Jordan & Starks. (Fig. 185).**

Yama-hime.

?Tetraroge güntneri Boulenger, Proc. Zool. Soc. London, 1889, p. 239, with plate. Muscat, Arabia.*Snyderina yamanokami* Jordan & Starks, Proc. Cal. Ac. Sci., 1901, p. 381, pl. XX. Kagoshima.

Distrib.—Kagoshima.

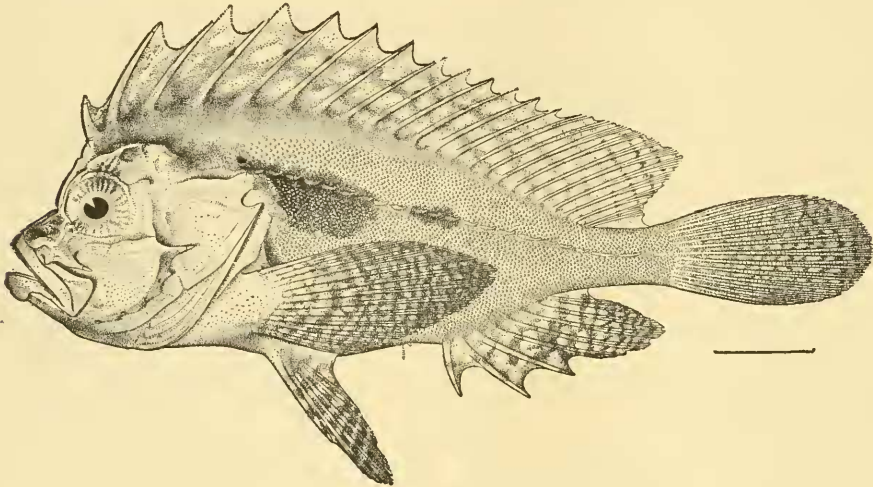


Fig. 185.

Genus *Paracentropogon* Bleeker.*Paracentropogon* Bleeker, Act. Sci. Roy. Amst., 1876, p. 66.Type *Apistus longispinis* Cuvier & Valenciennes.**735. *Paracentropogon rubripinnis* (Temminck & Schlegel). (Fig. 186).**

Haokoze.

Apistus rubripinnis Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 49, pl. XXII, fig. 2. Nagasaki.*Tetraroge longispinis* var. *nuda* Günther, Shore Fishes Challenger, 1880, p. 66. Kōbe, Japan.

Distrib.—Tōkyō to Nagasaki.

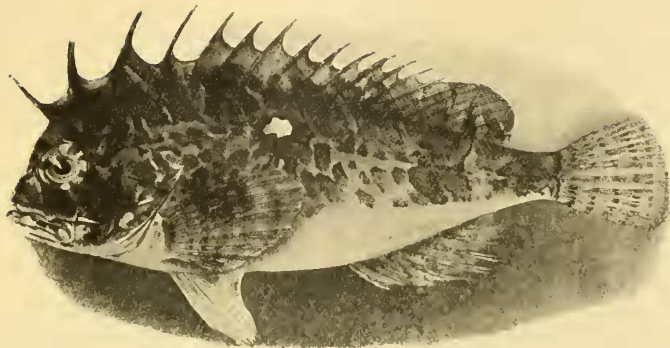


Fig. 186.

Genus Erisphex Jordan & Starks.*Erisphex* Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 169.Type *Cocotropus pottii* Steindacher.**736. Erisphex pottii** (Steindachner).

Abuokoze.

Cocotropus pottii Steindachner, Reise der Aurora, 1897, p. 203, pl. IV, fig. 1.
Köbe.

Distrib.—Matsushima to Nagasaki.

737. Erisphex kagoshimensis (Ishikawa).

Huurai-okoze.

Tetraroge kagoshimensis Ishikawa, Proc. Dep. Nat. Hist. Tokyo Imp. Mus., I,
1904, p. 13, pl. VIII, fig. 1. Kagoshima.

Distrib.—Kagoshima.

738. Erisphex achrurus Regan.

Nirami-okoze.

Erisphex achrurus Regan, Ann. Mag. Nat. Hist., 1905, p. 21, pl. II, fig. 3.
Inland Sea of Japan.

Distrib.—Inland Sea of Japan.

Genus Aploactis Temminck & Schlegel.*Aploactis* Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 51.Type *Aploactis aspera* Richardson.

739. *Aploactis aspera* Richardson. (Fig. 187).**Ibo-okoze.***Aploactis* Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 51, pl. XXII, fig. 3. Nagasaki.*Aploactis aspera* Richardson, Voy. Sulphur, Fishes, 1846, p. 72. China.

Distrib.—Nagasaki ; Kagoshima ; China.



Fig. 187.

Family HEXAGRAMMIDÆ.**Genus *Hexagrammos* (Steller) Tilesius.***Dolcagrammos* Steller, in Krascheninnikof, Reise in Kamchatka, 1750, p. 175 (nonbinomial).*Hexagrammos* Steller, Manuscript.*Hexagrammos* Tilesius, Act. Acad. Petrop., II, 1809, p. 335.*Labrax* (Steller Ms.) Pallas, Mém. Acad. Petersb., II, 1810, p. 382. (*Labrax lagocephalus* Pallas).*Octogrammus* Bleeker, Versl. Ak. Amst., VI, 1874, p. 1370. (*Labrax octogrammus* Pallas).*Grammatopleurus* Gill, Proc. Ac. Nat. Sci. Phila., 1861, p. 166. (*Labrax lagocephalus* Pallas).Type *Hexagrammus asper* Tilesius.**740. *Hexagrammos otakii* Jordan & Starks.****Ainame** (Misaki, Sagami).*Hexagrammos otakii* Jordan & Starks, Proc. Calif. Acad. Sci., 1895, p. 800. Tōkyō.

Hexagrammos aburaco Jordan & Starks, Proc. U. S. Nat. Mus., XXVI, 1903, p. 1008, fig. 1. Tōkyō.
Distrib.—Hakodate to Nagasaki.

741. *Hexagrammos stelleri* Tilesius.

Yezo-ainame.

Hexagrammos stelleri Tilesius, Mém. Acad. St. Petersb., II, 1809, p. 335.
Kamchatka.
Distrib.—From Kamchatka and Unalaska to San Francisco; Aleutian Islands.

742. *Hexagrammos octogrammus* (Pallas).

Suji-ainame.

Labrax octogrammus Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 283. Kamchatka, Potropaulski and Avatcha Bay.
Distrib.—Unalaska; Petropaulski; Robben; Iturup Island; Chipesani, Saghalien; Hakodate; Mororan.

743. *Hexagrammos lagocephalus* (Pallas).

Usagi-ainame.

Labrax lagocephalus Pallas, Mém. Ac. St. Petersb., II, 1810, p. 384. Kuril Islands.
Distrib.—Robben; Bering; Iturup; Airop, Saghalien.

Genus *Pleurogrammus* Gill.

Pleurogrammus Gill, Proc. Ac. Nat. Sci. Phila., 1861, p. 166.
Type *Labrax monopterygius* Pallas.

744. *Pleurogrammus monopterygius* (Pallas).

Yubi-ainame.

Labrax monopterygius Pallas, Mém. Acad. Sci. Petersb., II, 1810, p. 391, pl. 23, fig. 1. Unalaska.
Distrib.—Aleutian Is.; Vladivostok; Chipesani, Saghalien.

Genus *Agrammus* Günther.

Agrammus Günther, Cat. Fish., II, 1860, p. 94.
Type *Agrammus schlegelii* Günther = *Labrax agrammus* Temminck & Schlegel.

745. *Agrammus agrammus* (Temminck & Schlegel).**Kujime.***Labrax agrammus* Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 56.
Nagasaki.*Agrammus schlegelii* Günther, Cat. Fish., II, 1860, p. 94. Japan.

Distrib.—Hakodate to Nagasaki.

Family ANOPLOMATIDÆ.**Genus *Erilepis* Gill.***Erilepis* Gill, Science, Jan. 26, 1894, p. 54.*Myriolepis* Lockington, Proc. U. S. Nat. Mus., 1880, p. 248. (*Myriolepis zonifer* Lockington. The generic name *Myriolepis* preoccupied by *Myriolepis* Egerton, 1864, a genus of fossil fishes).*Ebisus* Jordan & Snyder, Journ. Coll. Sci. Imp. Univ. Tokyo, XV, 1901, p. 308.
(*Ebisus sagamius* Jordan & Snyder).Type *Myriolepis zonifer* Lockington.**746. *Erilepis zonifer* (Lockington). (Fig. 188).****Abura-bōzu.***Myriolepis zonifer* Lockington, Proc. U. S. Nat. Mus., 1880, p. 248. Monterey.*Ebisus sagamius* Jordan & Snyder, Journ. Coll. Sci. Imp. Univ. Tokyo, XV,
1901, p. 308, pl XV, figs. 3,4. Misaki, Sagami.

Distrib.—Monterey Bay, California ; Sagami Sea, Japan.

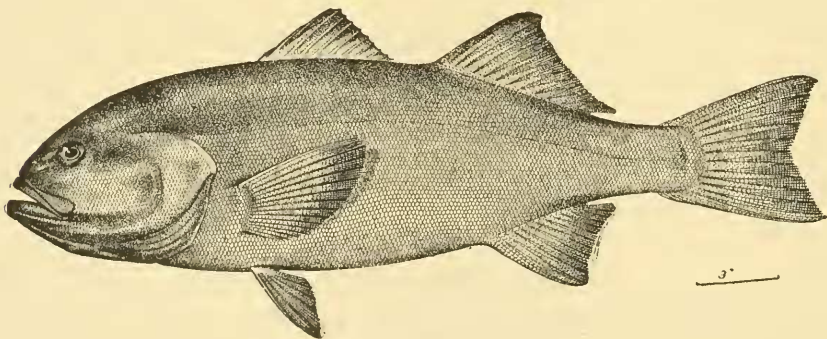


Fig. 188.

Family COTTIDÆ.

Genus *Stlengis* Jordan & Starks.

Stlengis Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 236.

Type *Stlengis oscensis* Jordan & Starks.

747. *Stlengis oscensis* Jordan & Starks. (Fig. 189).

Kushi-kazika.

Stlengis oscensis Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 236,
fig. 1. Suruga Bay.

Distrib.—Suruga Bay.

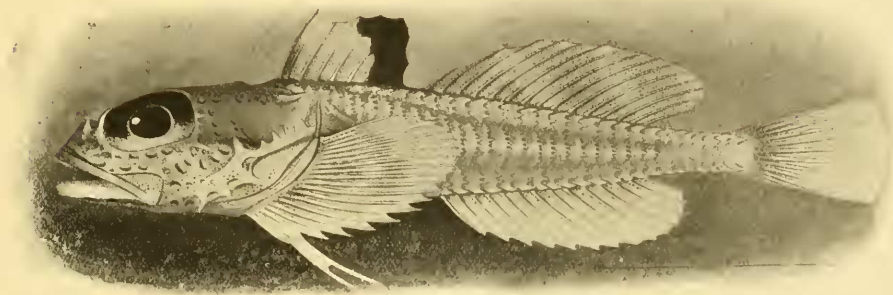


Fig. 189.

Genus *Schmidtia* Jordan & Starks.

Schmidtia Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 237.
(Preoccupied).

Schmidtia Jordan & Starks, l.c., p. 961.

Type *Schmidtia misakia* Jordan & Starks.

748. *Schmidtia misakia* (Jordan & Starks). (Fig. 190).

Uroko-kazika.

Schmidtia misakia Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p.
237, fig. 2. Sagami Bay, off Manadzuru Point.

Distrib.—Sagami Bay.

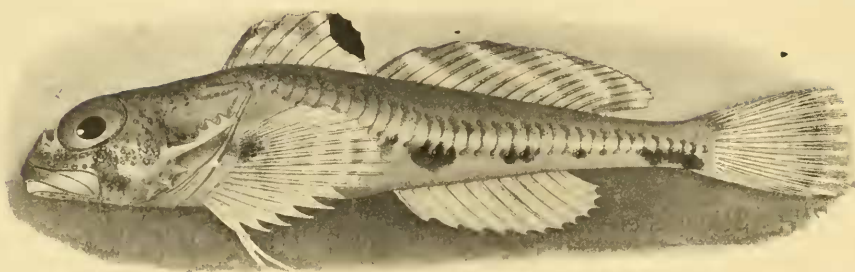


Fig. 190.

Genus *Archistes* Jordan & Gilbert.

Archistes Jordan & Gilbert, Fish. Bering Sea, in Rept. Fur Seal Invest. for 1896-97, III, 1899, p. 454.

Type *Archistes plumarius* Jordan & Gilbert.

749. *Archistes plumarius* Jordan & Gilbert. (Fig. 191).

Hane-kazika.

Archistes plumarius Jordan & Gilbert, Fish. Bering Sea, in Rept. Fur Seal Invest. for 1896-97, III, 1899, p. 454, pl. LIII. Ushishir Island.

Distrib.—Ushishir Island, of the Kuril Group.

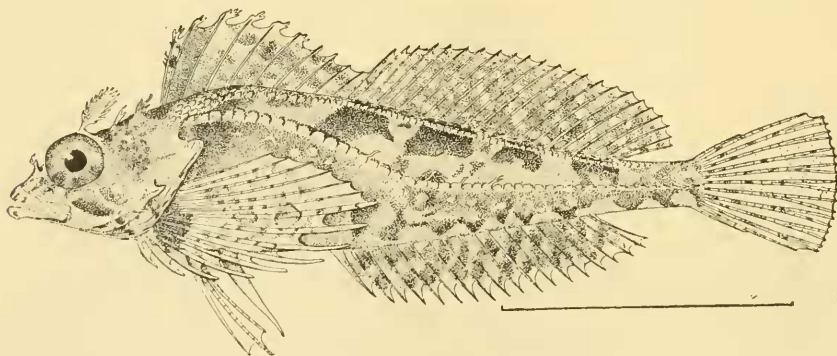


Fig. 191.

Genus *Daruma* Jordan & Starks.

Daruma Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 241.

Type *Daruma sagamia* Jordan & Starks.

750. *Daruma sagamia* Jordan & Starks. (Fig. 192).**Daruma-kazika.***Daruma sagamia* Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 241, fig. 4. Sagami Bay.

Distrib.—Sagami Bay ; Tōtōmi Bay ; Owari Bay.

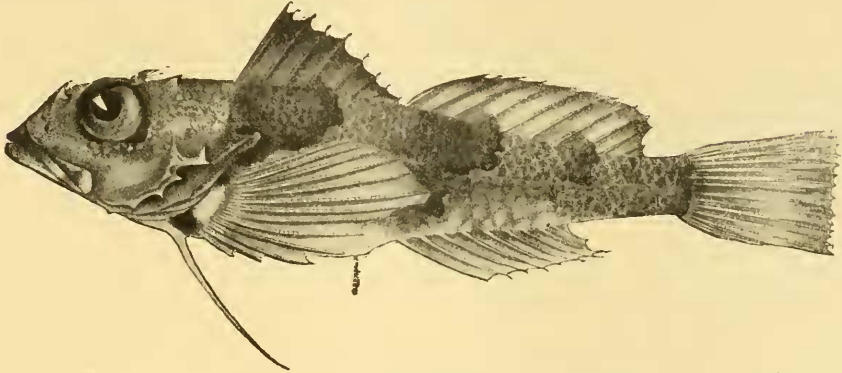


Fig. 192.

Genus *Ricuzenius* Jordan & Starks.*Ricuzenius* Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 242.Type *Ricuzenius pinetorum* Jordan & Starks.**751. *Ricuzenius pinetorum* Jordan & Starks. (Fig. 193).****Matsu-kazika.***Ricuzenius pinetorum* Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 243, fig. 5. Off Kinkwazan Island, in Matsushima Bay.

Distrib.—Matsushima Bay.

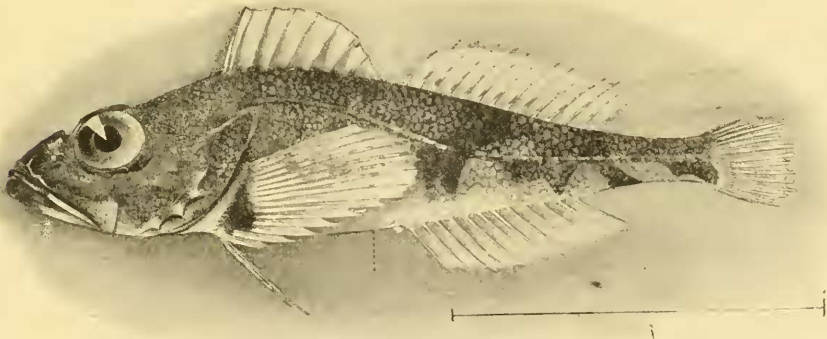


Fig. 193.

Genus *Artediellus* Jordan.

Artediellus Jordan, Cat. Fish. N. A., 1885, p. 110.

Type *Cottus uncinatus* Reinhardt.

752. *Artediellus pacificus* Gilbert.

Oki-kazika.

Artediellus pacificus Gilbert, Rept. U. S. Fish. Comm., 1893 (1896), p. 416.

South of Sannak Island, at Albatross Station 3216.

Distrib.—Alaska ; Kamchatka ; Robben Island ; Japan Sea.

Genus *Icelus* Krøyer.

Icelus Krøyer, Natur. Tidsskr., I, 1845, p. 253.

Type *Icelus hamatus* Krøyer.

753. *Icelus spiniger* Gilbert. (Fig. 194).

Kōri-kazika.

Icelus spiniger Gilbert, Rept. U. S. Fish. Comm., 1893 (1896), p. 412, pl. XXIV. Bristol Bay and Unalaska, at Albatross Stations 3216, 3223, and elsewhere.

Distrib.—Bristol Bay ; Unalaska ; Japan Sea.

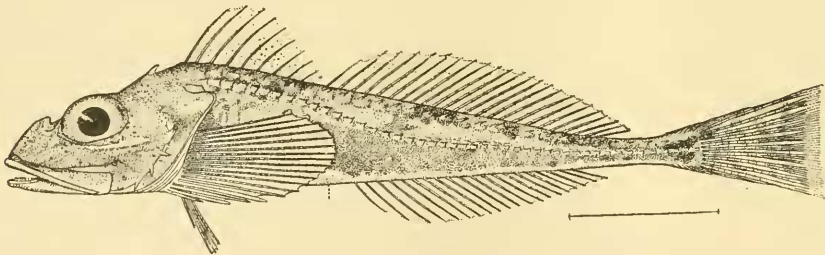


Fig. 194.

Genus *Stelgistrum* Jordan & Gilbert.

Stelgistrum Jordan & Gilbert, Fish. Bering Sea, in Fur Seal Invest. for 1896-97, III, 1899, p. 456.

Type *Stelgistrum stejnegeri* Jordan & Gilbert.

754. *Stelgistrum stejnegeri* Jordan & Gilbert. (Fig. 195).

Ottosei-kazika.

Stelgistrum stejnegeri Jordan & Gilbert, Fish. Bering Sea, in Rept. Fur Seal Invest. for 1896-97, III, 1899, p. 456, pl. LIV. Robben Island.

Stelgistrum mororane Jordan & Seale, Proc. U. S. Nat. Mus., XXX, 1906, p. 146, fig. 4. Mororan, Hokkaidō.

Distrib.—Robben Island; Aniva Bay, Saghalien; Peter the Great Bay; Mororan, Hokkaidō.

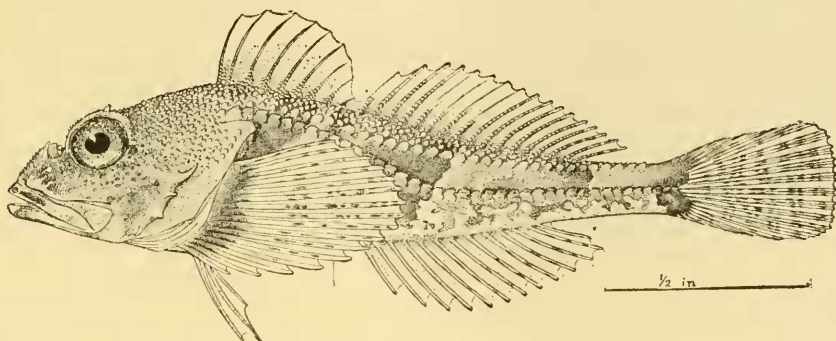


Fig. 195.

Genus Triglops Reinhardt.

Triglops Reinhardt, Vid. Selsk. Natur. Math. Afh., V, 1832, p. 52.

Type *Triglops pingeli* Reinhardt.

755. *Triglops beani* Gilbert. (Fig. 196).

Hokkyoku-kazika.

Triglops beani Gilbert, Rept. U. S. Fish. Comm., 1893 (1896), p. 428, pl. XXVIII, fig. 2. Aleutian Islands; Bristol Bay; at Albatross stations 3214, 3217, and many others.

Distrib.—Alaska to Puget Sound; Kurils; both north and south of the Aleutian Is.; Bristol Bay; St. Paul Island.

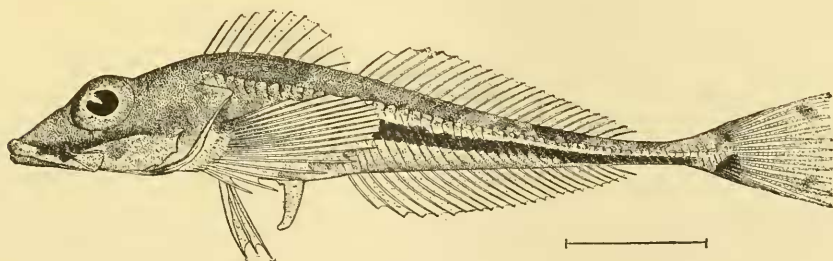


Fig. 196.

756. *Triglops jordani* (Schmidt). (Fig. 197).

Karafuto-kazika.

Planura jordani Schmidt, ms. Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 252, fig. 9. Vladivostok; Aniva Bay, Saghalien.

Distrib.—Vladivostok; Aniva Bay, Saghalien.



Fig. 197.

Genus Hemilepidotus Cuvier.

Hemilepidotus Cuvier, Règne Anim., 2d ed., II, 1829, p. 165.

Type *Cottus hemilepidotus* Tllesius.

757. Hemilepidotus gilberti Jordan & Starks. (Fig. 198).

Yokosuji-kazika.

Hemilepidotus gilberti Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904,
p. 254, fig. 10. Hakodate.

Distrib.—Hakodate ; Airop, Saghalien.



Fig. 198.

Genus Enophrys Swainson.*Enophrys* Swainson, Class'n Fishes, II, 1839, p. 271.Type *Cottus claviger* Cuvier & Valenciennes.**758. *Enophrys claviger* (Cuvier & Valenciennes). (Fig. 199).**

Kagi-kazika.

Cottus claviger Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 195.
Kamchatka.*Cottus elegans* Gray, in Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p.
195. Same type.

Distrib.—Robben I.; Bristol Bay; Alaska; Kamchatka.

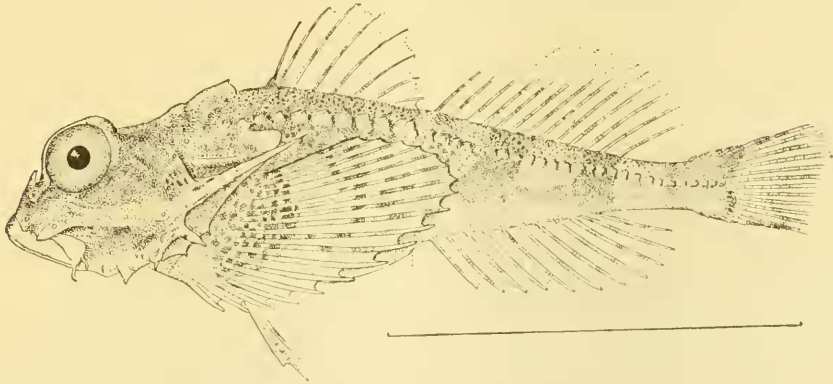


Fig. 199.

Genus Ceratocottus Gill.*Ceratocottus* Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 165.Type *Cottus diceraus* Pallas.**759. *Ceratocottus diceraus* (Pallas). (Fig. 200).**

Tsuno-kazika.

Cottus diceraus Pallas, Nov. Act. Petropol., 1783, p. 354, pl. X, fig. 7. Petropaulski; Kamchatka.

Distrib.—Bering Sea, from Alaska to Kamchatka and Saghalien; Robben Island; off Pestschuzoff, coast of Korea.

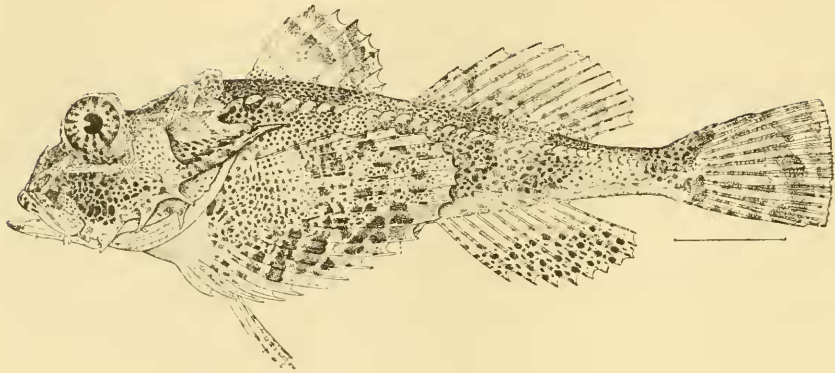


Fig. 200.

760. *Ceratocottus namiyei* Jordan & Starks. (Fig. 201).

Oni-kazika.

Ceratocottus namiyei Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904,
p. 259, fig. 13. Nemuro, Hokkaidō.

Distrib.—Nemuro, Hokkaidō ; Sōya ; Ōshū, Japan ; Korsakoff, Saghalien.



Fig. 201.

Genus *Dasycottus* Bean.

Dasycottus Bean, Proc. U.S. Nat. Mus., 1890, p. 42.

Type *Dasycottus setiger* Bean.

761. *Dasycottus setiger* Bean.

Nami-kazika.

Dasycottus setiger Bean, Proc. U.S. Nat. Mus., 1890, p. 42. Off Sitkalidak Island, Alaska.

Distrib.—Alaska ; Niigata.

Genus *Trachidermus* Heckel.

Trachidermus Heckel, Ann. Wiener Mus., II, 1840, p. 159.

Type *Trachidermus fasciatus* Heckel.

762. *Trachidermus fasciatus* Heckel. (Fig. 202).

Suji-kagi-kazika.

Trachidermus fasciatus Heckel, Ann. Wiener. Mus., II, 1840, p. 160, pl. IX, figs. 1 and 2. Philippines.

Centridermichthys ansatus Richardson, Voyage of Sulphur, Fishes, 1844, p. 74, pl. LIV, figs. 6-10. Woo Sung, mouth of the Yangtze.

Distrib.—Chikugo R. at Kurme ; Nagasaki ; mouth of the Yangtze.

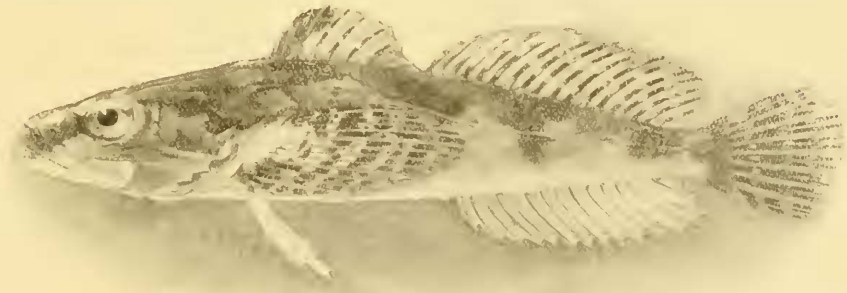


Fig. 202.

Genus *Cottus* (Artedi) Linnaeus.

Cottus Artedi, Genera, 1738, p. 49.

Cottus Linnaeus, Syst. Nat., 10th ed., 1758, p. 264.

Type *Cottus gobio* Linnaeus.

763. *Cottus kazika* Jordan & Starks. (Fig. 203).

Kamakiri (Tosa).

Cottus kazika Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 265, fig. 15. Niigata.

Distrib.—Niigata ; Tsuruga ; Kii ; To: a.



Fig. 203.

764. *Cottus pollux* Günther.

Kazika.

Cottus pollux Günther, Ann. Mag. Nat. Hist., 1873, p. 240. Otaru in Hokkaidō (Ishikari River).

Cottus hilgendorfi Steindachner & Döderlein, Fische Japans, III, 1884, p. 40 ; IV, pl. IV. Near Tōkyō.

Distrib.—Tama R.; Sumida R.; Kitakami R.; Kinu R. at Utsunomiya ; Niigata ; Aomori ; Prov. Shinano.

765. *Cottus reinii* Hilgendorf.

Utsusemi-kazika.

Cottus reinii Hilgendorf, Sitzber. Gesell. naturf. Freunde Berlin, 1879, p. 105. "Yezo and South Nippon."

766. *Cottus dybowskii* Hilgendorf.

Yume-kazika.

Cottus dybowskii Hilgendorf, Sitz. Gesell. naturf. Freunde Berlin, 1879, p. 106. No locality named.

767. *Cottus nozawæ* Snyder.

Hana-kazika.

Cottus nozawæ Snyder, Proc. U.S. Nat. Mus., XL, 1911, p. 537. Sapporo. Distrib.—Ishikari at Sapporo, Hokkaidō.

768. *Cottus amblystomopsis* Schmidt.

Cottus amblystomopsis Schmidt, Pisces Marium Orientalium, 1904, p. 89, pl. 2, figs. 1-3. Lutoga R., Petropavlovsk.

Genus *Rheopresbe* Jordan & Starks.

Rheopresbe Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 269.

Type *Rheopresbe fujiiyamæ* Jordan & Starks.

769. *Rheopresbe fujiiyamæ* Jordan & Starks. (Fig. 204).

Takitarō.

Rheopresbe fujiiyamæ Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 270, fig. 16. Odawara.

Distrib.—Odawara.

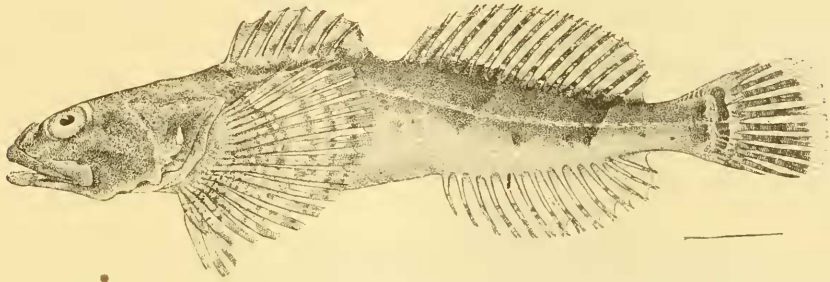


Fig. 204.

Genus *Myoxocephalus* (Steller) Tilesius.

Myoxocephalus Steller Ms., 1741.

Myoxocephalus Tilesius, Mém. Acad. Sci. Petersb., IV, 1811, p. 273.

Type *Myoxocephalus stelleri* Tilesius.

770. *Myoxocephalus jaok* (Cuvier & Valenciennes).

Oku-kazika.

Cottus jaok Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 172.

Kamchatka (specimen in Mus. Berl. called *Cottus scorpius* by Pallas).

Distrib.—Bering Sea ; both coasts, extending into the Arctic and south to the Amur R. and Unalaska ; Saghalien.

771. *Myoxocephalus polyacanthocephalus* (Pallas). (Fig. 205).

Cottus polyacanthocephalus Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 133.

Aleutian Islands ; no definite locality.

Distrib.—Alaska to Kamchatka.

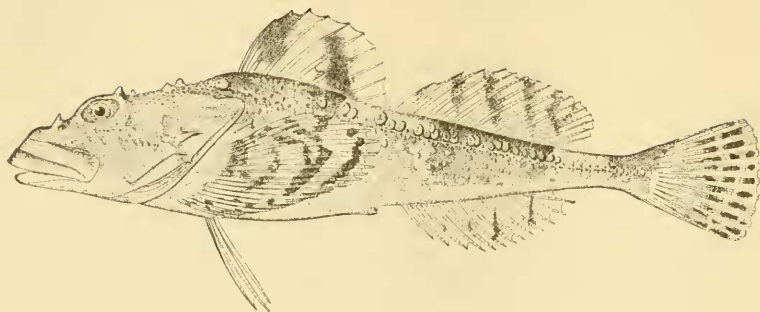


Fig. 205.

772. *Myoxocephalus edomius* Jordan & Starks. (Fig. 206).

Edomo-kazika.

Myoxocephalus edomius Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904,
p. 274, fig. 18. Edomo, near Mororan.

Distrib.—Edomo, near Mororan; Hakodate.

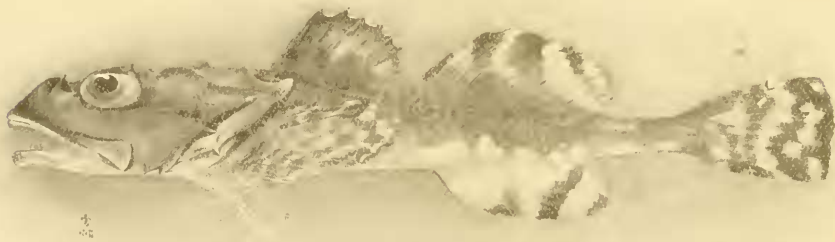


Fig. 206.

773. *Myoxocephalus nivosus* (Herzenstein). (Fig. 207).

Shimofuri-kajika.

Cottus nivosus Herzenstein, Mélanges Biologiques du Bull. Acad. Imp. Sci.
Petersb., XII, 1890, p. 113. St. Olga Bay.

Distrib.—Same; Mororan; Hakodate; Iturup I.; Korsakoff; Lososei Bay,
Saghalien.



Fig. 207.

774. *Myoxocephalus raninus* Jordan & Starks. (Fig. 208).

Gisu-kazika.

Myoxocephalus raninus Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 277, fig. 20. Aomori.

Distrib.—Same ; Mororan ; Aomori ; Hakodate ; Saghalien.

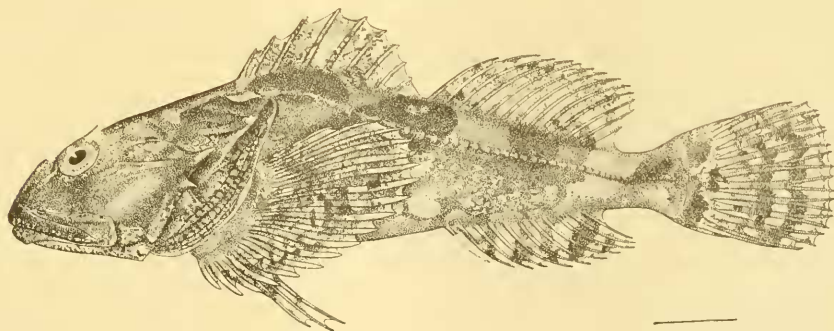


Fig. 208.

775. *Myoxocephalus stelleri* Tilesius. (Fig. 209).

Isago-kazika.

Myoxocephalus stelleri Tilesius, Mém. Acad. Petersb., IV, 1811, p. 273, with plate, not referred to in text. Petropaulski.

Distrib.—Petropaulski ; Bering I.; Medni I.; mouth of Amur R.; Vladivostok ; Saghalien.

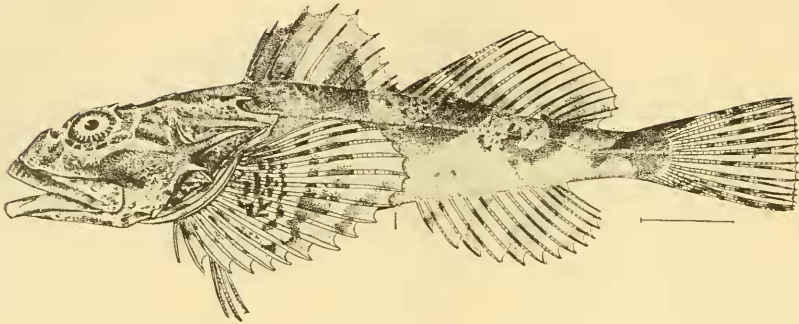


Fig. 209.

776. *Myoxocephalus yesoensis* Snyder.

Yarai-kazika.

Myoxocephalus yesoensis Snyder, Proc. U.S. Nat. Mus., XL, 1911, p. 538.
Hakodate.

Distrib.—Northern Japan.

777. *Myoxocephalus axillaris* (Gill).

Nezumi-kazika.

Boreocottus axillaris Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 166. Bering
Straits.

Distrib.—Arctic Ocean and Bering Sea.

Genus *Melletes* Bean.*Melletes* Bean, Proc. U.S. Nat. Mus., 1879, p. 354.Type *Melletes papilio* Bean.**778. *Melletes papilio* Bean.**

Kujyaku-kazika.

Melletes papilio Bean, Proc. U. S. Nat. Mus., 1879, p. 354. St. Paul Island,
Pribilof Group.

Distrib.—St Paul Island.

Genus *Megalocottus* Gill.*Megalocottus* Gill, Proc. Ac. Nat. Sci. Phila., 1861, p. 166.Type *Cottus platycephalus* Pallas.**779. *Megalocottus platycephalus* (Pallas). (Fig. 210).**

Ozigi-kazika.

Cottus platycephalus Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 135. Kam-
chatka, after Steller.

Distrib.—Okhotsk Sea · western and northern parts of Bering Sea.

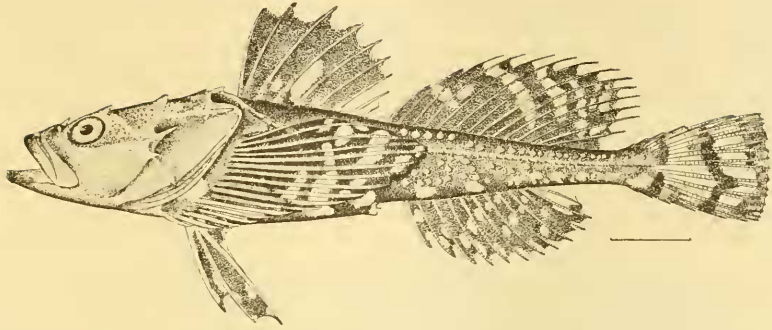


Fig. 210.

Genus *Porocottus* Gill.*Porocottus* Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 166.Type *Porocottus quadrifilis* Gill.780. *Porocottus nigrescens* Tanaka.

Kurokaz'ka.

Porocottus nigrescens Tanaka, Ann. Zool. Jap. VI, pt. 4, June 20, 1908, p. 241, pl. IX, figs. 1, 2. Southern part of Saghalien.

Distrib.—Southern part of Saghalien.

781. *Porocottus tentaculatus* (Kner).

Tsuno-kazika.

Cottus tentaculatus Kner, Sitzber. Akad. Wiss. Wien, LVIII, 1868, p. 22, pl. V, fig. 12. "Singapore;" evidently an error.

Distrib.—Probably Pacific coast of Asia.

782. *Porocottus iijimai* Tanaka.

Iijima-kazika.

Porocottus iijimai Tanaka, Ann. Zool. Jap., VI, pt. 4, June 20, 1904, p. 244, pl. IX, figs., 3, 4. Mouth of the Susuya R., Saghalien.

Distrib.—Mouth of the Susuya R.

Genus *Ainocottus* Jordan & Starks.*Ainocottus* Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 283.Type *Ainocottus ensiger* Jordan & Starks.

783. *Ainocottus ensiger* Jordan & Starks. (Fig. 211).

Yari-kazika.

Ainocottus ensiger Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 283, fig. 23. Hakodate.

Distrib.—Hakodate.



Fig. 211.

Genus *Argyrocollus* Herzenstein.*Argyrocollus* Herzenstein, Mélanges Biol. Ac. Imp. Sci. St. Petersburg, XIII, 1892, p. 219.Type *Argyrocollus zanderi* Herzenstein.784. *Argyrocollus zanderi* Herzenstein. (Fig. 212).

Itohiki-kazika.

Argyrocollus zanderi Herzenstein, Mélanges Biol. Ac. Imp. Sci., XIII, 1892, p. 219. Korsakow, Saghalien.

Distrib.—Saghalien ; Iturup I.

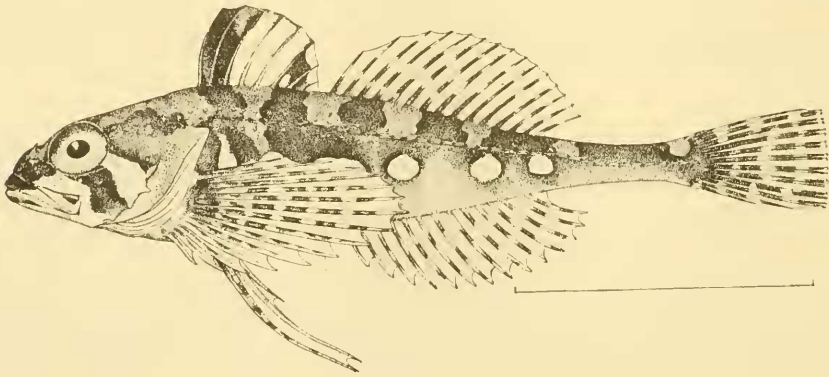


Fig. 212.

Genus *Zesticelus* Jordan & Evermann.*Zesticelus* Jordan & Evermann, Check-List Fishes, 1896, p. 443.Type *Acanthocottus profundorum* Gilbert.**785. *Zesticelus bathybius*** (Günther).

Soko-kazika.

Cottus bathybius Günther, Rept. Fish. Challenger, 1887, p. 62, pl. X, fig. C.
Off Tōkyō.

Distrib.—Off Tōkyō ; Misaki, Sagami.

Genus *Cottunculus* Collett.*Cottunculus* Collett, Norges Fiske, 1875, p. 20.Type *Cottunculus microps* Collett.**786. *Cottunculus brephocephalus*** Jordan & Starks. (Fig. 213).

Bōzu-kazika.

Cottunculus brephocephalus Jordan & Starks, Proc. U. S. Nat. Mus., XXVI,
1903, p. 689, with fig. Suruga Bay.

Distrib.—Suruga Bay.



Fig. 213.

Genus *Gymnocanthus* Swainson.*Gymnocanthus* Swainson, Class. Fish., etc., II, 1839, p. 271.*Elaphocottus* Sauvage, Nouv. Arch. Mus. Paris, (2), I, 1878, p. 142 (*Cottus pistilliger* Pallas).Type *Cottus ventralis* Cuvier & Valenciennes.**787. *Gymnocanthus pistilliger*** (Pallas). (Fig. 214).

Hage-kazika.

Cottus pistilliger Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 43. Unalaska.

Distrib.—Coast of Alaska ; Robben I.; Kamchatka.



Fig. 214.

788. *Gymnocanthus intermedius* (Temminck & Schlegel).

Ai-kazika.

Cottus intermedius Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 38.

Coast of Yezo.

Distrib.—Hakodate ; Same ; Otaru.

789. *Gymnocanthus herzensteini* Jordan & Starks. (Fig. 215).

Tsumaguro-kazika.

Gymnocanthus herzensteini Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 294, fig. 27. Hakodate.

Distrib.—Hakodate.



Fig. 215.

790. *Gymnocanthus galeatus* Bean.**Kamuto-kazika.***Gymnocanthus galeatus* Bean, Proc. U.S. Nat. Mus., 1881, p. 153. Unalaska.

Distrib.—Unalaska ; St. Paul ; Point Barrow.

Genus *Crossias* Jordan & Starks.*Crossias* Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 296.Type *Crossias allisi* Jordan & Starks.**791. *Crossias allisi* Jordan & Starks. (Fig. 216).****Fusa-kake-kazika.***Crossias allisi* Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 296, fig. 28. Hakodate.

Distrib.—Hakodate ; Same.

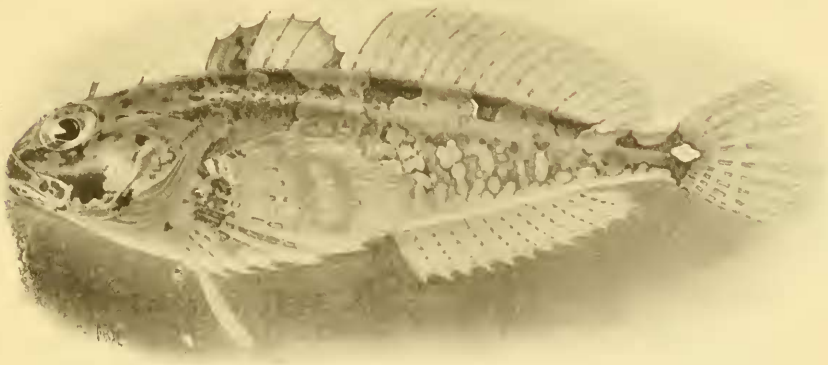


Fig. 216.

Genus *Cottiusculus* Schmidt.*Cottiusculus* Schmidt, Pisc. Mar. Orient., 1904, p. 108.Type *Cottiusculus gonez* Schmidt.**792. *Cottiusculus gonez* Schmidt. (Fig. 217).****Oki-hime-kazika.***Cottiusculus gonez* Schmidt, Pisc. Mar. Orient., 1904, p. 108, tab. II, figs. 4-6.

Vladivostok ; Aniva Bay, Saghalien.

Distrib.—Aniva Bay ; Vladivostok.

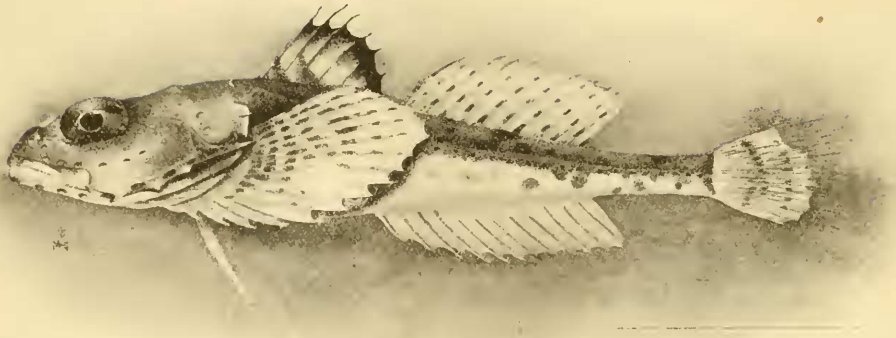


Fig. 217.

793. *Cottiusculus schmidtii* Jordan & Starks. (Fig. 218).

Kin-kazika.

Cottiusculus schmidtii Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904,
p. 299, fig. 30. Off Kinkwazan Island in Matsushima Bay.

Distrib.—Off Kinkazan Island.

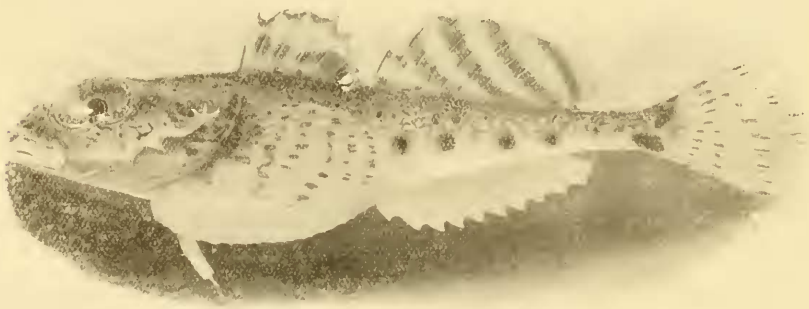


Fig. 218.

Genus *Elaphichthys* Jordan & Starks.

Elaphichthys Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 301.

Type *Centridermichthys elongatus* Steindachner.

794. *Elaphichthys elongatus* (Steindachner).

Umi-kazika.

Centridermichthys elongatus Steindachner, Ich. Beitr., X, 1881, p. 86. Strielok, Japan Sea (near Vladivostok).

Distrib.—Strielok.

Genus *Alcichthys* Jordan & Starks.*Alcichthys* Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 301.Type *Centridermichthys alcicornis* Herzenstein.**795. *Alcichthys alcicornis* (Herzenstein). (Fig. 219).**

Nizi-kajika.

Centridermichthys alcicornis Herzenstein, Zool. Mus. Kais. Akad. Wiss. St. Petersburg, XIII, 1890, p. 115. Yezo (Hokkaidō).

Distrib.—Hakodate ; Same, Rikuchū.

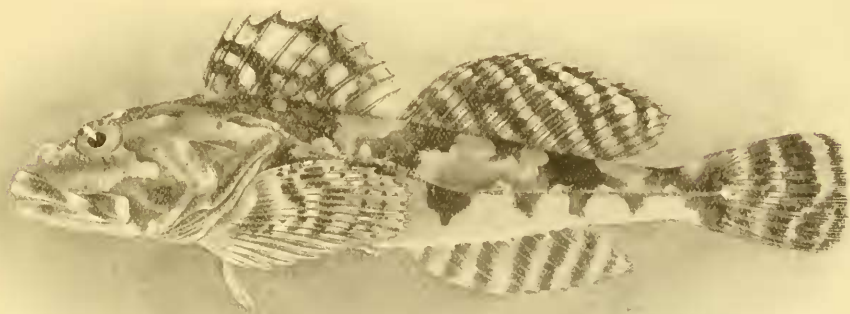


Fig. 219.

Genus *Furcina* Jordan & Starks.*Furcina* Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 303.Type *Furcina ishikawæ* Jordan & Starks.**796. *Furcina ishikawæ* Jordan & Starks. (Fig. 220).**

Sarasa-kazika.

Furcina ishikawæ Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 303, fig. 32. Miyako.

Distrib.—Hakodate to Wakanoura.

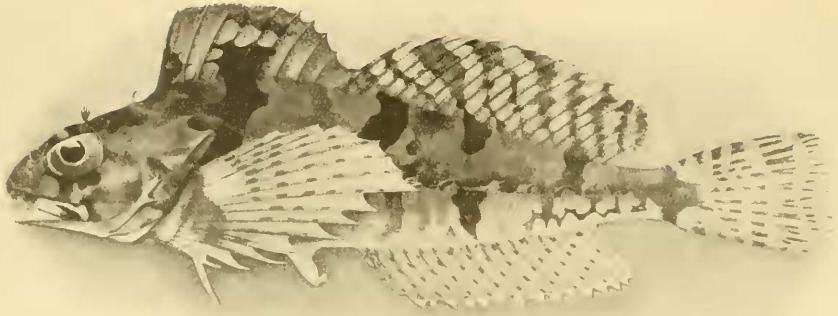


Fig. 220.

797. *Furcina osimæ* Jordan & Starks. (Fig. 221).

Kinu-kazika.

Furina osimæ Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 305,
fig. 33. Hakodate.

Distrib.—Hakodate ; Misaki, Sagami.



Fig. 221.

Genus *Ccynectes* Jordan & Starks.

Ocynectes Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 306.

Type *Ocynectes maschalis* Jordan & Starks.

798. *Ocynectes maschalis* Jordan & Starks. (Fig. 222).

Idaten-kazika.

Ocynectes maschalis Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 307, fig. 34. Wakanoura.

Distrib.—Enoshima ; Wakanoura ; southern Saghalien.



Fig. 222.

799. *Ocynectes modestus* Snyder.

Mutsu-kazika.

Ocynectes modestus Snyder, Proc. U.S. Nat. Mus., XL, 1911, p. 539. Same.

Distrib.—Same, Mutsu.

Genus *Pseudoblennius* Temminck & Schlegel.*Pseudoblennius* Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 313.*Pseudoclinus* Temminck & Schlegel, Fauna Japonica, Poiss., pl. LXXIXa.

Same type.

Type *Pseudoblennius percoides* Günther.**800. *Pseudoblennius percoides* Günther.**

Anahaze ; Yanagihaze.

Pseudoblennius Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 313, pl. LXXIXa, figs. 2,3, called *Pseudoclinus*. Ōmura near Nagasaki.*Pseudoblennius percoides* Günther, Cat. Fish., II, 1860, p. 297. After Temminck & Schlegel.*Pseudoblennius anahaze* Bleeker, Poiss. connues du Japon, 1879, p. 11. After Temminck & Schlegel.*Centridermichthys schlegeli* Döderlein, Fische Japans, III, 1884, p. 210. Tōkyō.

Centridermichthys argenteus Döderlein, Fische Japans, IV, 1887, p. 257.
Tōkyō.

Distrib.—Matsushima to Nagasaki.

801. *Pseudoblennius cottoides* (Richardson).

Asahi-anahaze.

Podabrus cottoides Richardson, Voy. Samarang, Fishes, 1850, p. 13, pl. I, figs. 1-5. Sea of China.

Centridermichthys japonicus Steindachner, Ichth. Beitr., X, 1881, p. 187.
Kanagawa, near Yokohama.

Centridermichthys affinis Steindachner & Döderlein, Fische Japans, IV, 1887, p. 257. Tango ; Kanagawa.

Distrib.—Hakodate to Nagasaki ; Tango.

802. *Pseudoblennius zonostigma* Jordan & Starks. (Fig. 223).

Obi-anahaze.

Pseudoblennius zonostigma Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 312, fig. 35. Misaki, Sagami.

Distrib.—Misaki, Sagami ; Nagasaki.



Fig. 223.

803. *Pseudoblennius marmoratus* (Döderlein).

Aya-anahaze.

Centridermichthys marmoratus Döderlein, Fische Japans, III, 1884, p. 210.
Tōkyō.

Distrib.—Misaki, Sagami ; Enoshima.

804. *Pseudoblennius totomius* Jordan & Starks. (Fig. 224).

Hama-anahaze.

Pseudoblennius totomius Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 315, fig. 36. Omi Point in Tōtōmi Bay.

Distrib.—Tōtōmi Bay.

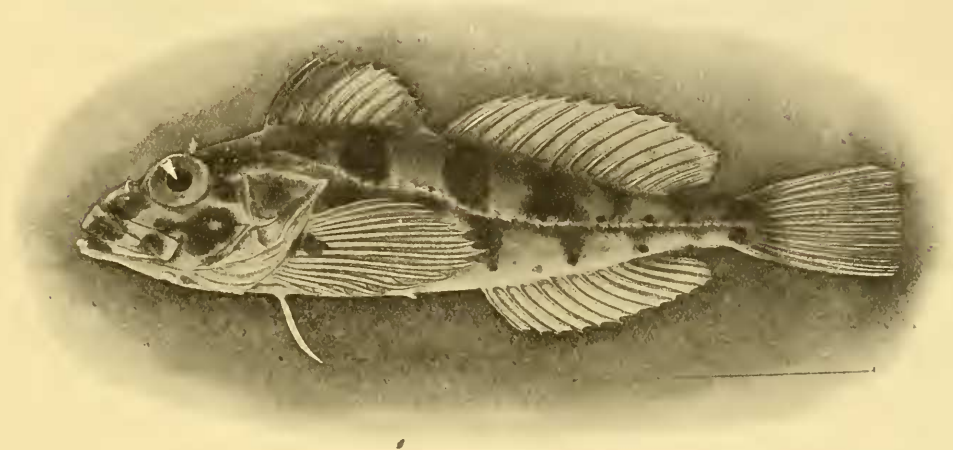


Fig. 224.

Genus *Bero* Jordan & Starks.

Bero Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 317.

Type *Centridermichthys elegans* Steindachner.

805. *Bero elegans* (Steindachner). (Fig. 225).

Bero.

Centridermichthys elegans Steindachner, Ich. Beiträge, X, 1881, p. 7. Strielok, near Vladivostok.

Distrib.—Tōkyō to Kitami; Vladivostok.



Fig. 225.

806. *Bero zancus* Snyder.

Kama-bero.

Bero zancus Snyder, Proc. U.S. Nat. Mus., XL, 1911, p. 540. Otaru.

Distrib.—Northern Japan.

Genus *Vellitor* Jordan & Starks.*Podabrus* Richardson, Voy. Samarang, Fishes, 1850, p. 11 (*Podabrus centropomus* Richardson. The generic name *Podabrus* preoccupied by *Podabrus* Fischer, a genus of beetles).*Vellitor* Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 318.Type *Podabrus centropomus* Richardson.807. *Vellitor centropomus* (Richardson). (Fig. 225).

Sui.

Podabrus centropomus Richardson, Voy. Samarang, Fishes, 1850, p. 11, pl. I, figs. 7-11. Quelpart, Straits of Korea.*Centridermichthys nudus* Döderlein, Fische Japans, IV, 1887, p. 528. Bay of Tōkyō.

Distrib.—Tōkyō; Misaki, Sagami; Quelpart, Straits of Korea.



Fig. 226.

Genus *Histiocottus* Gill.

Peropus Lay & Bennett, Beechey's Voy., Zool., Fish., 1839, p. 59. (*Blepsias bilobus* Cuvier & Valenciennes. The generic name *Peropus* preoccupied).

Histiocottus Gill, Proc. U.S. Nat. Mus., 1888, p. 573.

Type *Blepsias bilobus* Cuvier & Valenciennes.

808. *Histiocottus bilobus* (Cuvier & Valenciennes). (Fig. 227).

Hokake-anahaze.

Blepsias bilobus Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 379.
Kamchatka.

Distrib.—Alaska ; Kamchatka ; Vladivostok.

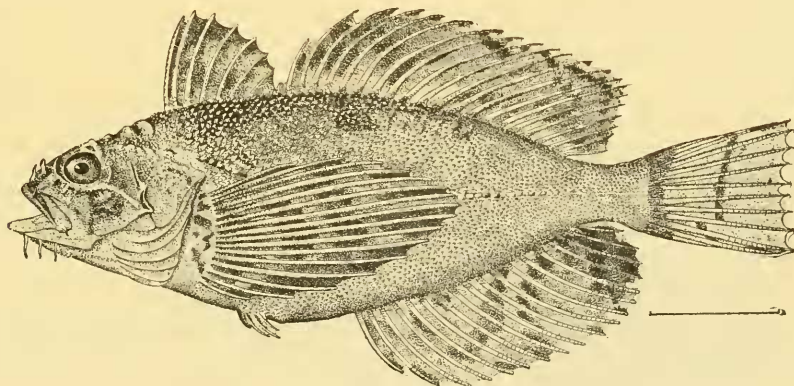


Fig. 227

Genus *Blepsias* Cuvier.

Blepsias Cuvier, Règne Animal, 2d ed., 1829.

Type *Trachinus cirrhosus* Pallas.

809. *Blepsias draciscus* Jordan & Starks. (Fig. 228).

Sachiko ; Isobatengu.

Blepsias draciscus Jordan & Starks, Proc. U. S. Nat. Mus., XXVII, 1904, p. 322, fig. 40. Aomori.

Distrib.—Iturup I.; Hakodate ; Aomori.

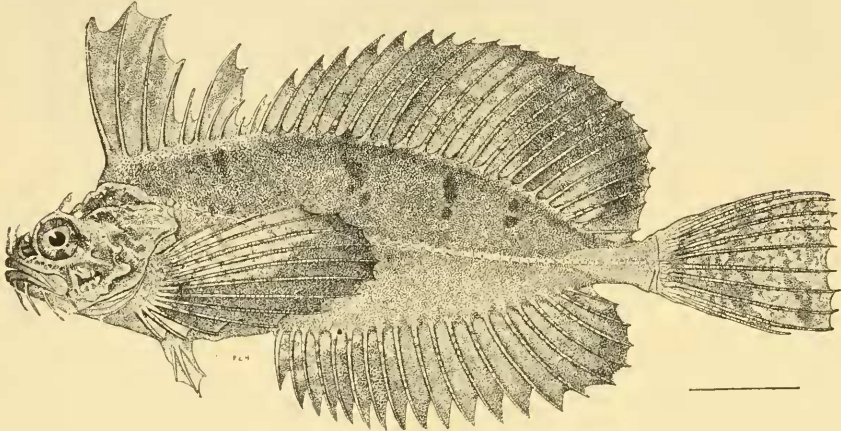


Fig. 228.

Genus *Nautiscus* Jordan & Evermann.*Nautiscus* Jordan & Evermann, Fish. N. and M. Amer., II, 1898, p. 2019.Type *Nautichthys pribilovius* Jordan & Gilbert.**810. *Nautiscus pribilovius* (Jordan & Gilbert). (Fig. 229).***Nautichthys pribilovius* Jordan & Gilbert, Rept. U.S. Fur Seal Comm., III, p. 468, pl. LXIX, 1898. Off St. George Island.

Distrib.—Bering Sea ; Aniva Bay, Saghalien.

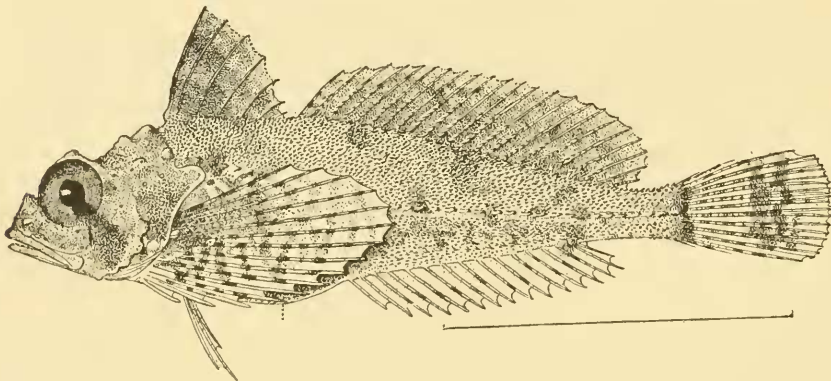


Fig. 229.

Genus Hemitripterus Cuvier.*Hemitripterus* Cuvier, Règne Animal, 2d ed., II, 1829, p. 164.Type *Scorpena americana* Gmelin.**811. Hemitripterus villosus** (Pallas).**Kemushi-kazika.***Cottus villosus* Pallas, Zoogr. Ross. Asiat., III, 1811, p. 129. Cape Kronok, Kamchatka ; mouth of Itscha R. After Ms. of Steller.*Hemitripterus cavifrons* Lockington, Proc. Ac. Nat. Sci. Phila., 1880, p. 233. Kadiak Island.*Hemitripterus nipponicus* Ishikawa, Proc. Dep. Nat. Hist. Tokyo Imp. Mus., 1904, p. 14, pl. VII, fig. 2. Hakodate.

Distrib.—Hakodate ; Nemuro ; Mororan ; off Kinkwazan Island in Matsushima Bay ; Lososei Bay ; Airop, Saghalien ; Kamchatka ; Kadiak I., Alaska.

Genus Psychrolutes Günther.*Psychrolutes* Günther, Cat. Fish., III, p. 1861, p. 516.Type *Psychrolutes paradoxus* Günther.**812. Psychrolutes paradoxus** Günther. (Fig. 230).**Uranai-kazika.***Psychrolutes paradoxus* Günther, Cat. Fish., III, 1861, p. 516. Gulf of Georgia, Vancouver Island.*Psychrolutes zebra* Bean, Proc. U.S. Nat. Mus., 1890, p. 43. Aleutian Is., between Unga and Nagai I.

Distrib.—Alaska to Puget Sound ; Iturup I.; Cape Pestschuzoff, coast of Korea.

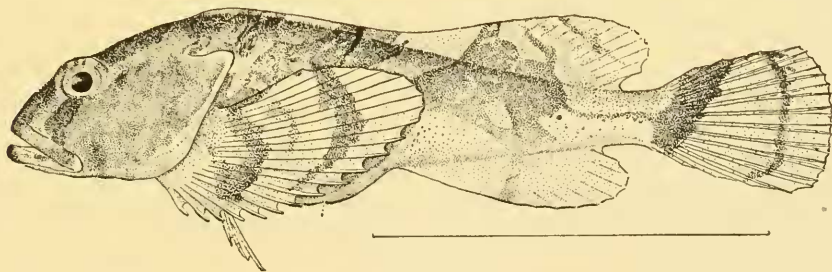


Fig. 230.

Genus Ereunias Jordan & Snyder.*Ereunias* Jordan & Snyder, Proc. Cal. Ac. Sci. (3d Ser.), II, 1901, p. 377.Type *Ereunias grillator* Jordan & Snyder.

813. *Ereunias grillator* Jordan & Snyder. (Fig. 231).

Tori-kazika.

Ereunias grillator Jordan & Snyder, Proc. Cal. Ac. Sci. (3d Ser.), II, 1901, p. 378, pl. XVIII. Misaki, Sagami.

Distrib.—Misaki, Sagami.

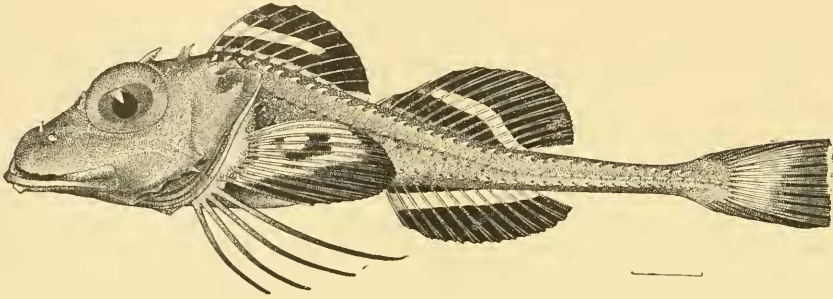


Fig. 231.

Family PLATYCEPHALIDÆ.**Genus *Platycephalus* Bloch.***Platycephalus* Bloch, Ichth., XII, 1795, p. 90.*Calliomorus* Lacépède, Hist. Nat. Poiss., II, 1800, p. 343 (*Callionymus indicus* Linnaeus).Type *Platycephalus spathula* Bloch = *Cottus insidiator* Forskål = *Callionymus indicus* Linnaeus.**814. *Platycephalus indicus* (Linnaeus).**

Kochi; Magochi; Gingochoi.

Callionymus indicus Linnaeus, Syst. Nat., 10th ed., 1758, p. 250. "Asia."

Distrib.—East Indies to India and the Red Sea, and north to Japan.

Genus *Thysanophrys* Ogilby.*Thysanophrys* Ogilby, Proc. Linn. Soc. N. S. W., 1898, XXIII, p. 40.*Insidiator* Jordan & Evemann, Proc. U. S. Nat. Mus., XXIII, 1900, p. 368.(*Platycephalus rudis* Günther = *Platycephalus meerdervoortii* Bleeker).Type *Platycephalus cirronasus* Richardson.**815. *Thysanophrys spinosus* (Temminck & Schlegel). (Fig. 232).**

Onigochoi.

Platycephalus spinosus Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 40, pl. XVI, figs. 1, 2. Nagasaki.

Distrib.—Southern Japan from Tōkyō to Southern China.

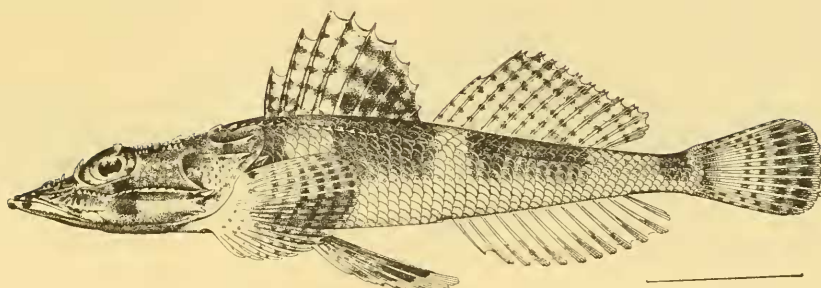


Fig. 232.

816. *Thysanophrys macrolepis* (Bleeker). (Fig. 233).

Anesa-gochi.

Platycephalus macrolepis Bleeker, Nieuw Nalez. Ichth. Japan, 1857, p. 76, pl. IV, fig. 1. Nagasaki.

Insidiator hosokawæ Smith & Pope, Proc. U. S. Nat. Mus., XXXI, 1906, p. 486, fig. S. Urado, Prov. Tosa.

Distrib.—Southern Japan, north to Tōkyō.

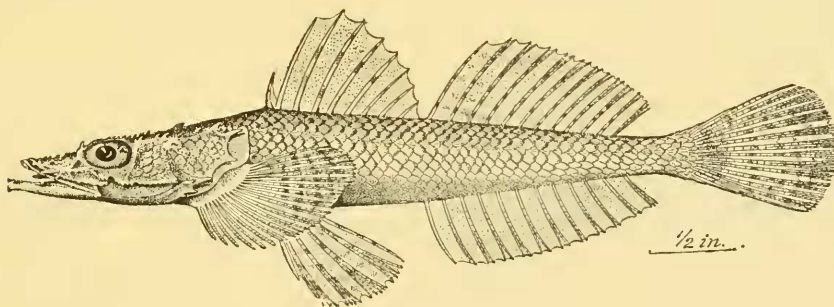


Fig. 233

817. *Thysanophrys japonicus* (Tilesius). (Fig. 234).

Tokage-gochi.

? *Silurus inermis* Houttuyn, Verhandl. Haarlem., XX, 1782 (2), p. 450 Nagasaki.

Platycephalus japonicus Tilesius, Krusenst. Reise, 1812, pl. LIX, fig. 1. Nagasaki.

Distrib.—Southern Japan and China, north to Tōkyō.

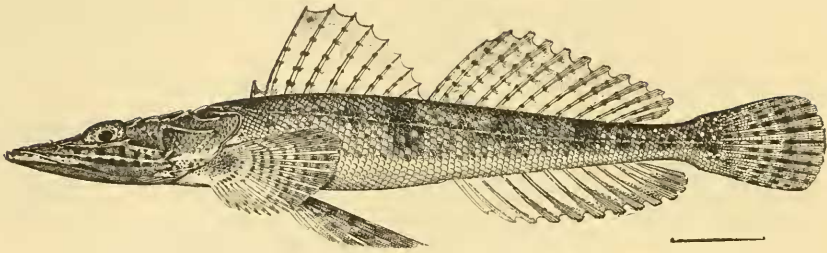


Fig. 234.

818. *Thysanophrys meerdervoortii* (Bleeker).**Megochi; Onnagochi.***Platycephalus meerdervoortii* Bleeker, Acta Soc. Sci. Indo-Nederl., VIII, 1860, pl. I, fig. 3. Nagasaki; Yedo.*Platycephalus rudis* Günther, Shore Fishes, Challenger, 1880, p. 66, pl. XXIX, fig. B. Yokohama.

Distrib.—Southern Japan, north to Tōkyō.

819. *Thysanophrys crocodilus* (Tilesius). (Fig. 235).**Ine-gochi.***Platycephalus crocodilus* Tilesius, Kausenstern's Reise, 1812, pl. LIX, fig. 2. Nagasaki.

Distrib.—Southern Japan to the East Indies north to Tōkyō.

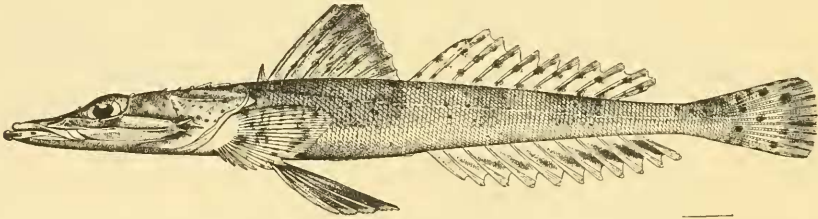


Fig. 235.

Genus *Rogadius* Jordan & Richardson.*Rogadius* Jordan & Richardson, Proc. U. S. Nat. Mus., XXXIII, 1908, p. 630.Type *Platycephalus asper* Cuvier & Valenciennes.**820. *Rogadius asper* (Cuvier & Valenciennes). (Fig. 236).****Matsuba-gochi (Kagoshima).***Platycephalus asper* Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 257. Japan.

Distrib.—Southern Japan and Southern China.

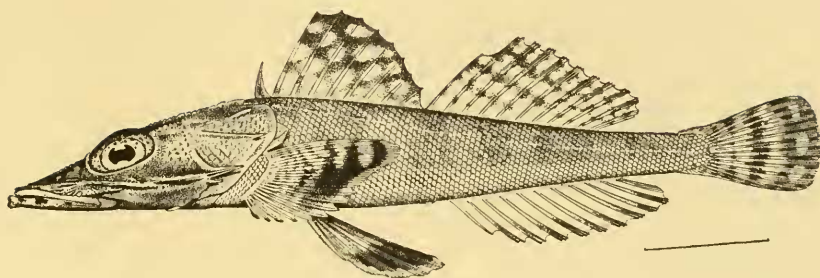


Fig. 236.

Family BEMBRIDÆ.**Genus Bembras** Cuvier & Valenciennes.

Bembras Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 282.

Type *Bembras japonicus* Cuvier & Valenciennes.

821. Bembras japonicus Cuvier & Valenciennes.

Aka-gochi.

Bembras japonicus Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 282, pl. LXXXIII. Japan.

Distrib.—South Japan, north to Tōkyō.

Genus Bembradon Jordan & Richardson.

Bembradon Jordan & Richardson, Proc. U.S. Nat. Mus., XXXIII, 1908, p. 643.

Type *Bembras lævis* Nyström.

822. Bembradon lævis (Nyström).

Hai-gochi.

Bembras lævis Nyström, Svensk. Vet.-Akad. Handl., 13, IV, 1887, No. 4, p. 26. Nagasaki.

Distrib.—Nagasaki.

Genus Parabembras Bleeker.

Parabembras Bleeker, Versl. Ak. Amst. (2), VIII, 1874, p. 370.

Type *Bembras curtus* Temminck & Schlegel.

823. Parabembras curtus (Temminck & Schlegel).

Uba-gochi.

Bembras curtus Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 42, pl. XVI, figs. 6,7. Nagasaki.

Distrib.—Nagasaki.

Family HOPLICHTHYIDÆ.

Genus *Hoplichthys* Cuvier & Valenciennes.

Hoplichthys Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829. Table of contents.

Oplichthys Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 266 (*Oplichthys langsdorfii* Cuvier & Valenciennes).

Type *Oplichthys langsdorfii* Cuvier & Valenciennes.

824. *Hoplichthys langsdorfii* Cuvier & Valenciennes.

Natsu-harigochi.

Oplichthys langsdorfii Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 264, pl. LXXXI. Japan.

Distrib.—Central and southern Japan.

825. *Hoplichthys regani* Jordan & Richardson. (Fig. 237).

Hari-gochi.

? *Hoplichthys pusillus* Bleeker, Enum. Poiss. Japan., 1879, p. 13. Nagasaki. (After *Aspidontus pusillus* Langsdorf, Mss.).

Hoplichthys langsdorfii Jordan & Richardson, Proc. U.S. Nat. Mus., XXXIII, 1908, p. 645, fig. 5. Kagoshima. (Not *Oplichthys langsdorfii* Cuvier & Valenciennes).

Hoplichthys regani Jordan & Richardson, Amer. Nat., XLII, Dec. 1908, p. 800. Same specimen.

Distrib.—Seas of Japan, north to Tōkyō.

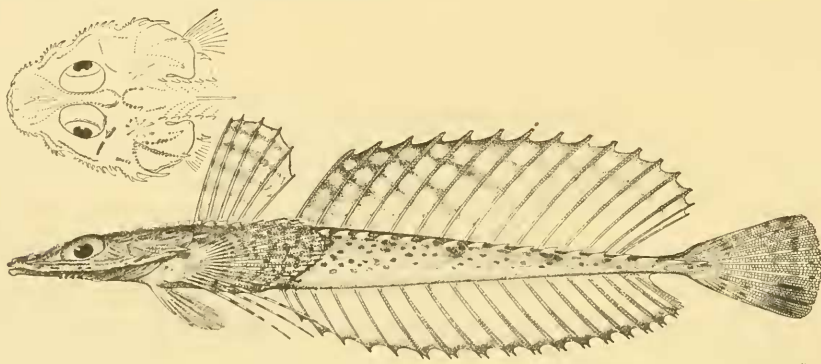


Fig. 237.

826. *Hoplichthys gilberti* Jordan & Richardson. (Fig. 238).

Soko-harigochi.

Hoplichthys gilberti Jordan & Richardson, Proc. U. S. Nat. Mus., XXIII, 1908, p. 647, fig. 6. Suruga Bay.

Distrib.—Seas of Japan, north to Suruga Bay.

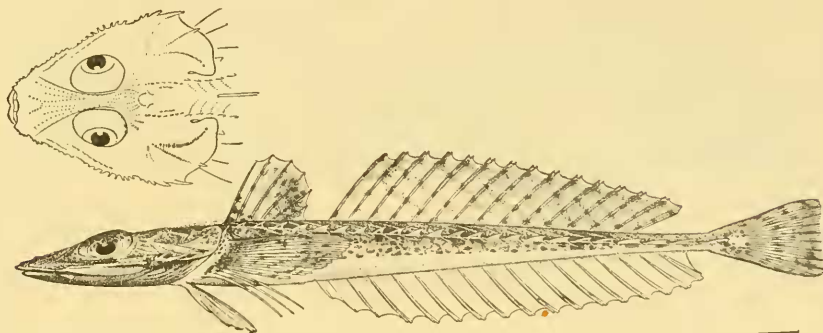


Fig. 238.

Family TRIGLIDÆ.

Genus *Chelidonichthys* Kaup.*Chelidonichthys* Kaup, Archiv. f. Naturgeschichte, 1873, p. 87.Type *Trigla hirundo* Bloch.827. *Chelidonichthys kumu* (Lesson & Garnot).

Hōbō.

Trigla kumu Lesson & Garnot, Voy. Coquille, Poiss., p. 214, pl. XIX. New Zealand, "le grand Baie des Iles."

Distrib.—Japan, north to Hakodate ; China ; Australia ; New Zealand.

Genus *Pterygotrigla* Waite.*Hoplonotus* Guichenot, Ann. Soc. Linn. Maine et Loire, Ichthyol., IX, 1866 (*Trigla polyommata* Richardson. The generic name *Hoplonotus* not of Blanchard, 1851, a genus of Coleoptera).*Pterygotrigla* Waite, Mem. Austral. Mus., IV, 1899, p. 108. (Substitute for *Hoplonotus* preoccupied).*Otolime* Jordan & Starks, Proc. U. S. Nat. Mus., XXXII, 1907, p. 13.(*Trigla hemisticta* Temminck & Schlegel).Type *Trigla polyommata* Richardson.828. *Pterygotrigla hemisticta* (Temminck & Schlegel). (Fig. 239).

Soko-hōbō.

Trigla hemisticta Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 36, pl. XIV, figs. 3,4, pl. XIV, B. Nagasaki.

Distrib.—Nagasaki to Tōkyō.

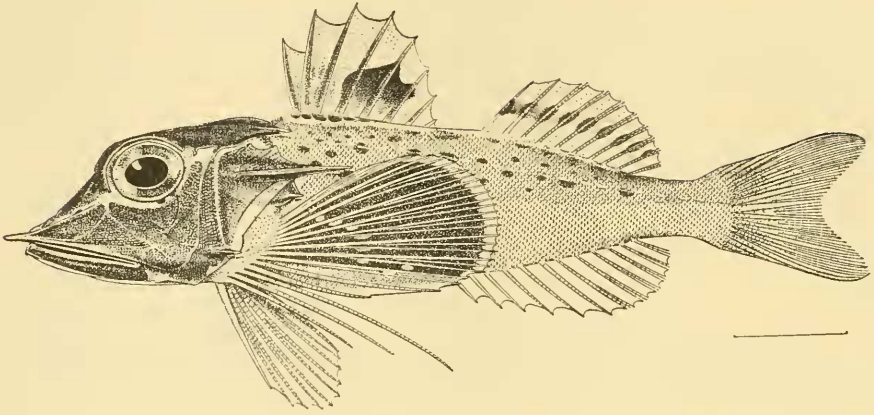


Fig. 239.

Genus *Lepidotrigla* Günther.

Lepidotrigla Günther, Cat. Fish., II, 1860, p. 196.

Type *Mullus aspera* Rondelet = *Trigla cavillone* Laépède.

829. *Lepidotrigla alata* (Houttuyn). (Fig. 240).

Igodaka-hoderi (Nagasaki).

Trigla alata Houttuyn, Verhandl. Hollandsch. Maatsch. Weetensch., Haarlem, XX, Deel 2, 1782, p. 320 (ca.). Nagasaki.

Trigla bürgeri Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 35, pl. XIV, figs. 1, 2. Nagasaki.

Distrib.—South Japan, north to Tōkyō ; China.

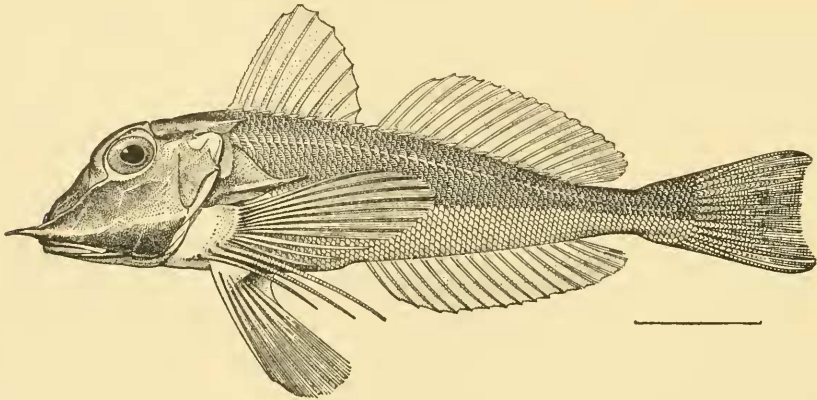


Fig. 240.

830. *Lepidotrigla güntheri* Hilgendorf.

Kanadō (Misaki, Sagami); Nitōro-hoderi (Nagasaki).

Lepidotrigla güntheri Hilgendorf, Ges. Naturf. Freunde, 1879, p. 106. Tōkyō.*Lepidotrigla longipinnis* Steindachner & Döderlein, Fische Japans, 1887, IV, fig. 1. Tōkyō.

Distrib.—Japan, north to Tōkyō.

831. *Lepidotrigla kishinouyei* Snyder.

Kinu-kanagashira.

Lepidotrigla kishinouyei Snyder, Proc. U. S. Nat. Mus., XL, 1911, p. 543. Kagoshima.

Distrib.—Southern Japan.

832. *Lepidotrigla japonica* (Bleeker). (Fig. 241).

Toge-kanagashira.

Prionotus japonicus Bleeker, Nieuwe Nalez. Ichth. Japan, 1857, p. 75, pl. V, fig. 1. Japan.*Lepidotrigla serridens* Hilgendorf, Ges. Naturf. Freunde, 1879, p. 107. Tōkyō.

Distrib.—South Japan, north to Tōkyō.

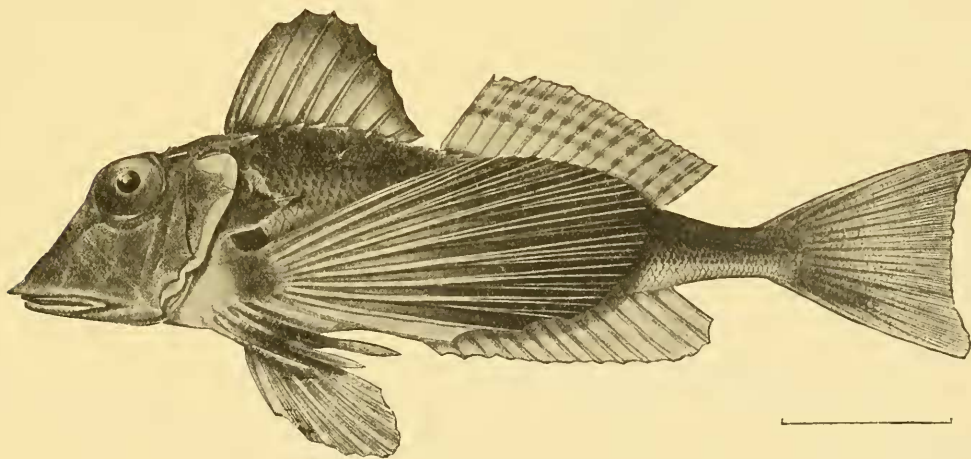


Fig. 241.

833. *Lepidotrigla strauchi* Steindachner.

Kanagashira (Misaki, Sagami; Tōkyō); Suji-hoderi (Nagasaki); Higanzō (Nagasaki).

Lepidotrigla strauchi Steindachner, Ich. Beitr., V, 1876, p. 166. Hakodate.*Lepidotrigla smithii* Regan, Ann. Mag. Nat. Hist., (7), XV, 1905, p. 22. Inland Sea of Japan.

Distrib.—Japan, north to Hakodate.

834. *Lepidotrigla abyssalis* Jordan & Starks. (Fig. 242).

Soko-kanagashira.

Lepidotrigla japonica Nyström, Svensk. Vet. Akad. Handl., 13, IV, No. 4, 1887, p. 23. Nagasaki (name preoccupied).*Lepidotrigla abyssalis* Jordan & Starks, Bull. U.S. Fish Comm., XXII, 1902, p. 595, fig. (Suruga Bay).

Distrib.—Japan, north to Tōkyō.

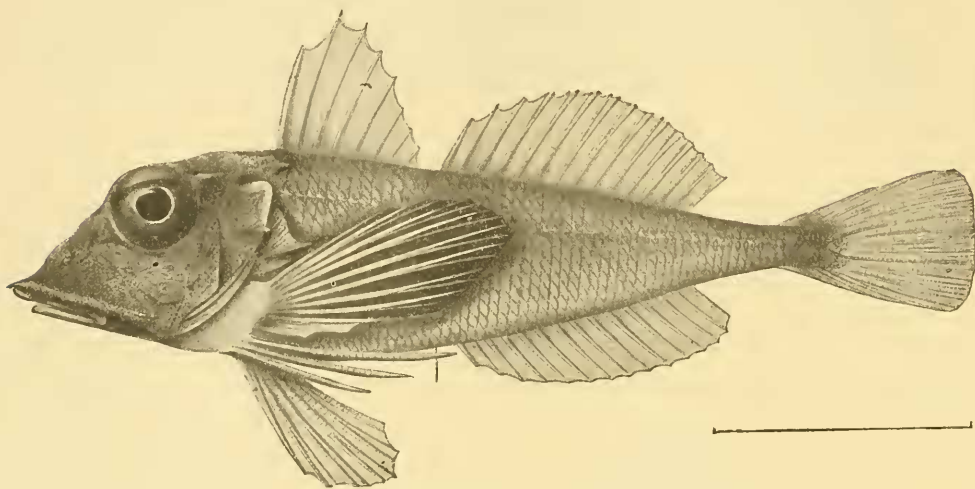


Fig. 242.

Family PERISTEDIIDÆ.**Genus Peristedion** Lacépède.*Peristedion* Lacépède, Hist. Nat. Poiss., III, 1802, p. 368.Type *Peristedion malarum* Lacépède = *Trigla cataphractum* Linnaeus.835. *Peristedion orientale* Temminck & Schlegel.

Kihōhō ; Tsuno-kanagashira.

Peristedion orientale Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 37, pl. XIV, figs. 5,6, pl. XIVA, figs. 1,2. Nagasaki.

Distrib.—Japan, north to Tōkyō.

836. *Peristedion amiscus* Jordan & Starks. (Fig. 243).

Hige-kihōbō.

Peristedion amiscus Jordan & Starks, Bull. U.S. Fish. Comm., XXII, 1902, p. 593, pl. III, figs. 1,2. Sagami Bay.

Distrib.—Sagami Bay.

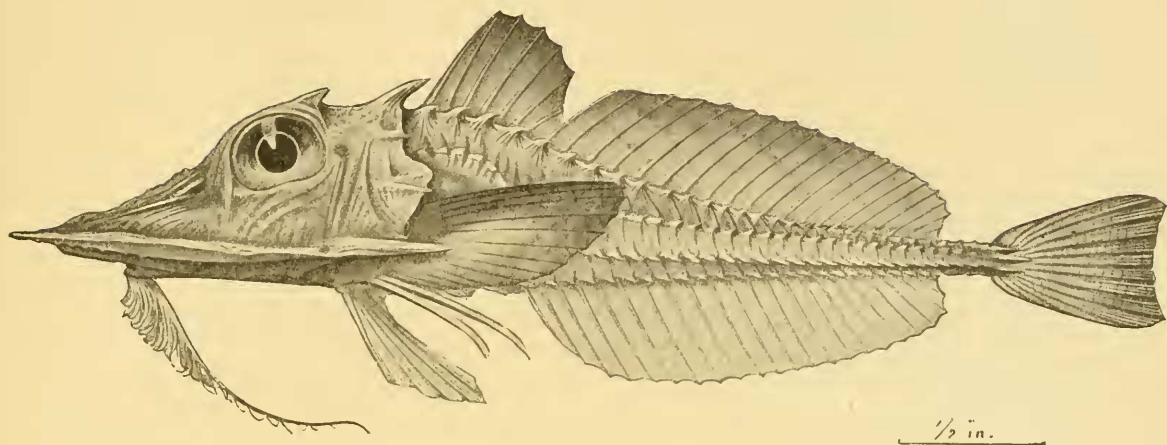


Fig. 243.

837. *Peristedion rieffeli* (Kaup).

Iso-kihōbō.

Peristedion rieffeli Kaup, Proc. Zool. Soc. Lond., 1859, p. 106, pl. VIII, fig. 3. ? Chinese insect boxes.

Distrib.—Southern Japan ; Uchinoura Bay, Kagoshima ; Urado, Tosa ; China.

Family DACTYLOPTERIDÆ.**Genus *Dactyloptena* Jordan & Richardson.**

Dactyloptena Jordan & Richardson, Proc. U. S. Nat. Mus., XXXIII, 1908, p. 665.

Type *Dactylopterus orientalis* Cuvier & Valenciennes.

838. *Dactyloptena orientalis* (Cuvier & Valenciennes).

Semi-hōbō.

Dactylopterus orientalis Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 134, pl. LXXVI. Indian Ocean.

Dactylopterus japonicus Bleeker, Nat. Tyds. Ned. Ind., VII, 1854, p. 396. Waka, Japan.

Distrib.—South Japan ; East Indies ; Hawaii.

839. *Dactyloptena gilberti* Snyder.

Oki-semihōbō.

Dactyloptena gilberti Snyder, Proc. U. S. Nat. Mus., XXXVI, 1909, p. 604. Kagoshima.

Dactyloptena jordani Franz, Abh. Bayer. Akad., 1910, p. 80, taf. IX, fig. 72 and 72a. Japan.

Distrib.—Southern Japan.

Genus *Daicocus* Jordan & Richardson.

Daicocus Jordan & Richardson, Proc. U.S. Nat. Mus., XXXIII, 1908, p. 667.

Type *Dactylopterus peterseni* Nyström.

840. *Daicocus peterseni* (Nyström). (Fig. 244).

Hoshi-semihōbō.

Dactylopterus orientalis Nyström, Svensk. Vet.-Akad. Handl., 13, IV, No. 4, 1887, p. 24. Nagasaki.

Distrib.—South Japan ; Misaki, Sagami to Nagasaki.

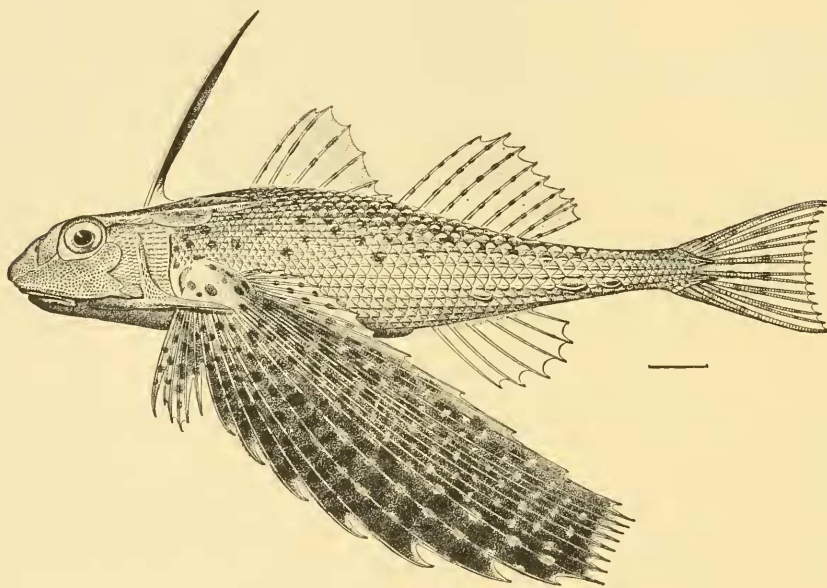


Fig. 244.

Family AGONIDÆ.

Genus *Tilesina* Schmidt.

Tilesina Schmidt, Faune mer du Japon., etc., 1903, p. 16.

Type *Tilesina gibbosa* Schmidt.

841. *Tilesina gibbosa* Schmidt.

Oni-Shachi-uwo.

Tilesina gibbosa Schmidt, Fauna de la mer du Japon., etc., 1903, p. 16. Japan Sea.

Distrib.—Peter the Great Bay ; Broughton Bay, Korea ; Saghalien.

Genus *Percis* Scopoli.

Percis Scopoli, Int. Hist. Nat., 1777, p. 454.

Type *Cottus japonicus* Pallas.

842. *Percis japonica* (Pallas).

Inu-gochi.

Cottus japonicus Pallas, Spicilegia Zoologia, VII, 1772, p. 30, pl. V, figs. 1-3.

Dry specimen ; Kuril Islands.

Agonus curilicus Tilesius, Mém. Acad. St. Petersb., IV, 1811, p. 416. After Pallas and Steller.

Agonus stegophthalmus Tilesius, Mém. Soc. Naturalist., Moscow, II, 1809, p. 219. Gulf of Patience, Saghalien Island.

Asidophorus lisiza Lacépède, Hist. Nat. Poiss., III, 1802, p. 224. After Pallas.

Asidophorus superciliosus Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829, p. 215. Kuril Is., after Pallas and Tilesius.

Distrib.—Ochotsk Sea ; Saghalien ; Kuril Is.; Niigata, Japan.

Genus *Agonomalus* Guichenot.

Agonomalus Guichenot, Mém. Soc. Sci. Nat. de Cherbourg, IX, 1866, p. 252, pl. IX.

Type *Asidophorus proboscidalis* Valenciennes.

843. *Agonomalus proboscidalis* (Valenciennes). (Fig. 245).

Atsumori-uwo.

Asidophorus proboscidalis Valenciennes, Comptes Rendus de l'Acad. des Sciences, XLVII, 1858, p. 1040. Port of Emperor Nicholas (Nicolaeusk), Gulf of Tartary.

Distrib.—Port of the Emperor Nicolas, Gulf of Tartary ; Hakodate, Hokkaidō.

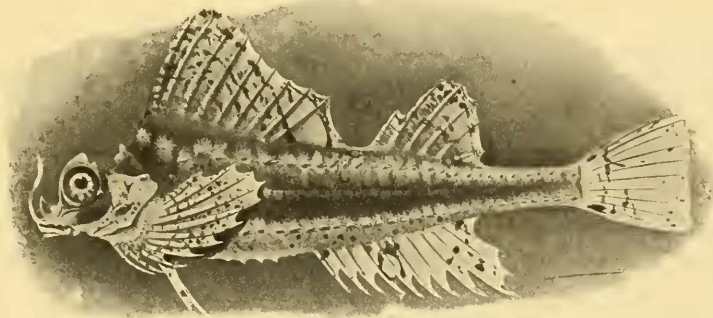


Fig. 245.

844. *Agonomalus jordani* Schmidt. (Fig. 246).

Kumagae-uwo.

Agonomalus jordani Schmidt, Pisc. Mar. Orient, 1904, p. 130, tab. 3, fig. 1,
a-d. Ochotsk Sea.

Distrib.—Ochotsk Sea ; Chipesani and Lososei Bay, Saghalien ; Niigata, Japan.

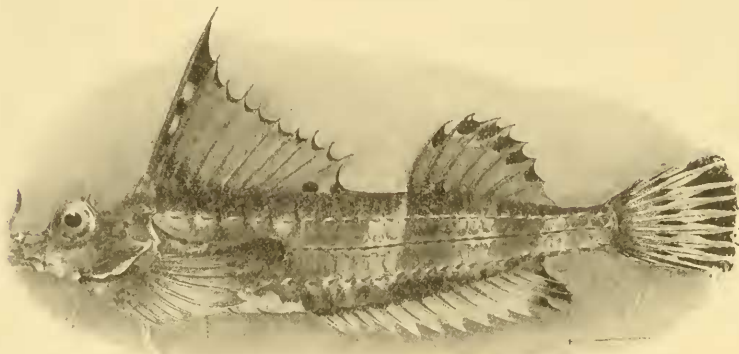


Fig. 246.

Genus *Hypsagonus* Gill.

Hypsagonus Gill, Proc. Ac. Nat. Sci. Phila., 1861, p. 259.

Cheiragonus Herzenstein, Bull. Acad. Imp. Sci. de St. Petersb, XIII, 1890, p.
116 (*Hypsagonus* (*Cheiragonus*) *gradiens* Herzenstein=*Aspidophorus*
quadricornis Cuvier & Valenciennes).

Type *Aspidophorus quadricornis* Cuvier & Valenciennes.

845. *Hypsagonus quadricornis* (Cuvier & Valenciennes). (Fig 247).

Tsuno-shachi-uwo.

Aspidophorus quadricornis Cuvier & Valenciennes, Hist. Nat. Poiss., IV, 1829,
p. 221. Kamchatka.

Hypsagonus (*Cheiragonus*) *gradiens* Herzenstein, Bull. Acad. Imp. des Sci. de
St. Petersb., XIII, p. 116, May 29, 1890. Kamchatka, Avatcha Bay, Port
Petropavlovsk.

Distrib.—North Pacific ; Kamchatka ; Bering Sea ; coasts of Alaska, south to
Bristol Bay and Puget Sound.

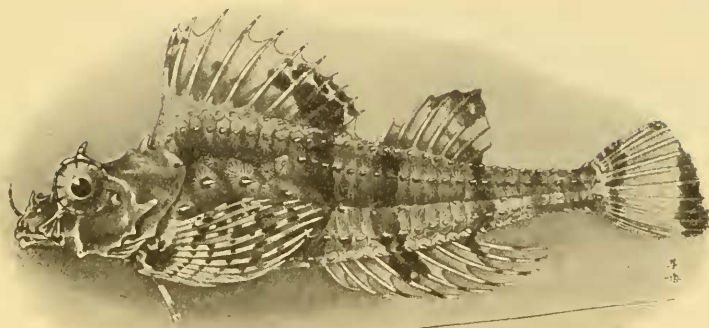


Fig. 247.

Genus *Occa* Jordan & Evermann.

Occa Jordan & Evermann, Fish North and Middle Amer., II, 1898, p. 2043.

Type *Brachyopsis verrucosus* Lockington.

846. *Occa dodecaedron* (Tilesius). (Fig. 248).

Kamuto-shachi-uwo.

Agonus dodecaëdron Tilesius, Mém. Acad. Petersb., IV, 1810, pl. XIII.
Kamchatka.

Phalangistes loricatus Pallas, Zoog. Rosso-Asiat., III, 1811, p. 114, pl. XIX.
Kamchatka.

Distrib.—Alaska ; Kamchatka ; Kuril Is.

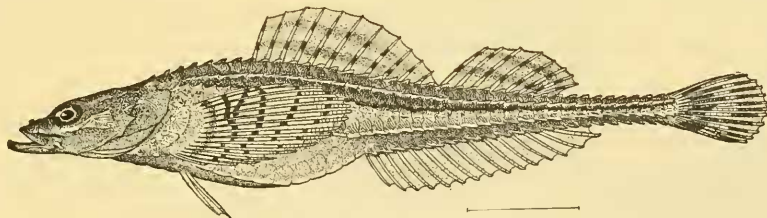


Fig. 248.

847. *Occa iburia* Jordan & Starks. (Fig. 249).

Yoroi-shachi-uwo.

Occa iburia Jordan & Starks, Proc. U.S. Nat. Mus., XXVII, 1904, p. 585, fig.
6. Tomakomaki, Iburi, Hokkaidō.

Distrib.—Off Prov. Iburi ; off Hitachi.

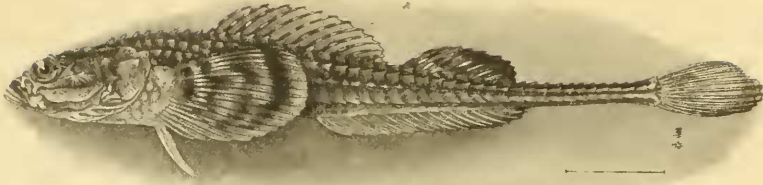


Fig. 249.

Genus *Brachyopsis* Gill.

Brachyopsis Gill, Proc. Ac. Nat. Sci. Phila., XIII, 1861, pp. 167, 259.

Siphagonus Steindachner, Ichth. Beiträge, V, p. 140; Sitzb. Acad. Wiss. Wien, LXXIV, July, 1876 (*Syngnathus segaliensis* Tilesius).

Type *Agonus rostratus* Tilesius.

848. *Brachyopsis rostratus* (Tilesius).

Shichirō-uwo.

Agonus rostratus Tilesius, Mém. Acad. Petersb., IV, 1810, pl. XIV. Gulf of Aniva, Saghalien.

Phalangistes fusiformis Pallas, Zoog. Rosso-Asiat., III, 1811, p. 116. Gulf of Aniva, Saghalien; Kuril Is.

Distrib.—Lososei Bay; Gulf of Aniva, Saghalien; Petropavlovsk; Kuril Is.

849. *Brachyopsis segaliensis* (Tilesius).

Syngnathus segaliensis Tilesius, Mém. Soc. Imp. Nat. de Moscow, II, 1810, p. 216, pl. XIV. Bay of Patience, Saghalien.

Agonus lævigatus Tilesius, Mém. Acad. Petersb., IV, 1810, p. 436. Saghalien. Distrib.—Bay of Patience, Saghalien.

Genus *Pallasina* Cramer.

Pallasina Cramer, Proc. Cal. Ac. Sci., 1895, p. 815.

Type *Siphagonus barbatus* Steindachner.

850. *Pallasina barbata* (Steindachner). (Fig. 250).

Yagi-uwo.

Siphagonus barbatus Steindachner, Ichth. Beiträge, V, p. 140, pl. V; Sitzb. K. Akad. Wiss., LXXIV, July 1876. Japan.

Distrib.—North Pacific, south to Japan and Oregon; Arctic Ocean near Bering Sea; Bristol Bay; Tareinsky Bay; Port Clarence, Alaska; Aomori; Nemuro; Mororan.

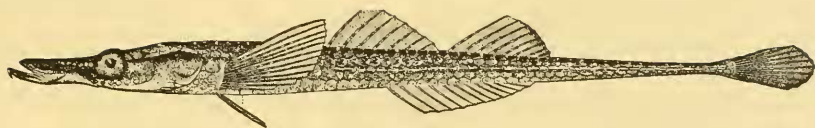


Fig. 25c.

851. *Pallasina eryngia* Jordan & Richardson. (Fig. 251).

Hige-naga-yagiuwo.

Pallasina eryngia Jordan & Richardson, Proc. U. S. Nat. Mus., XXXIII, 1907, p. 264, fig. 2. Echigo, Japan.

Distrib.—Echigo ; ? Aomori.

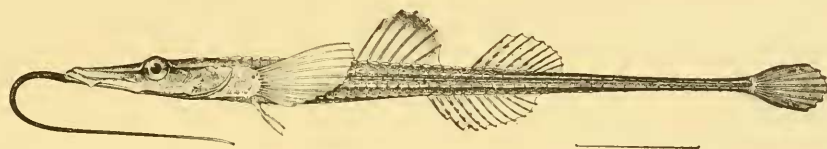


Fig. 251.

Genus *Draciscus* Jordan & Snyder.

Draciscus Jordan & Snyder, Proc. Cal. Acad. Sci., 1901, p. 379.

Type *Draciscus sachi* Jordan & Snyder.

852. *Draciscus sachi* Jordan & Snyder. (Fig. 252).

Sachi (Aomori).

Draciscus sachi Jordan & Snyder, Proc. Cal. Ac. Sci., 1902, p. 379, pl. XIX. Aomori.

Distrib.—Aomori ; Kayabe ; Hokkaikō.

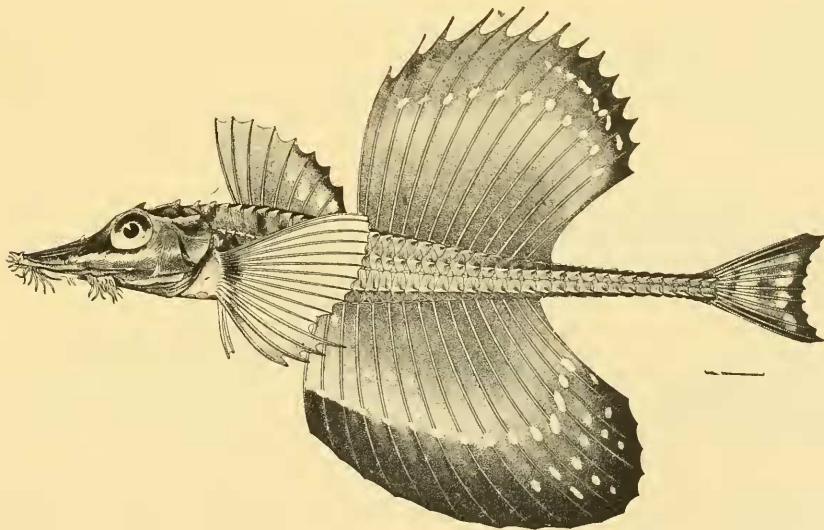


Fig. 252.

Genus *Podothecus* Gill.

Podothecus Gill, Proc. Ac. Nat. Sci. Phila., XIII, 1861, pp. 77, 259.

Type *Podothecus feristethus* Gill = *Agonus acipenscrinus* Tilesius.

853. *Podothecus gilberti* (Collett).

Kōri-tokubire.

Agonus gilberti Collett, Proc. Zool. Soc. London, 1894, p. 670, pl. XLV.
Kamchatka.

Distrib.—Petropavlovsk ; Cape Pestschnuzoff, Korea.

854. *Podothecus hamlini* Jordan & Gilbert. (Fig. 253).

Podothecus hamlini Jordan & Gilbert, Rept. Fur Seal Invest., 1896, III, 1898, p. 472. Shana Bay, Iturup I., Kuril Group. (Perhaps identical with *P. gilberti*).

Distrib.—Iturup I.; ? Kayabe.

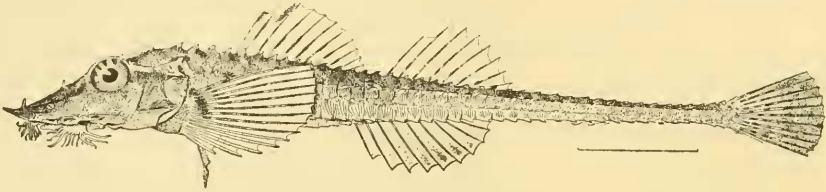


Fig. 253.

855. *Podothecus thompsoni* Jordan & Gilbert. (Fig. 254).

Yase-tokubire.

Podothecus thompsoni Jordan & Gilbert, Rept. Fur Seal Invest., III, 1896, p. 473, pl. LXXII. Off Shana Bay, Iturup I.

Distrib.—Shana Bay, Iturup I ; Cape Restschnizoff, Korea ; Niigata, Japan.

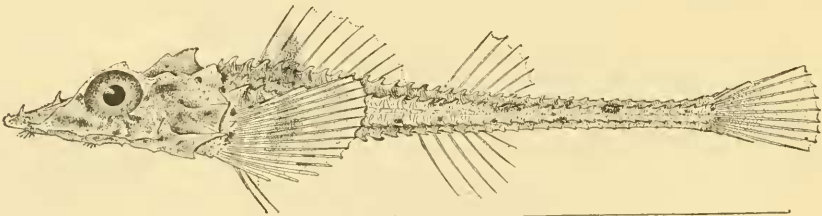


Fig. 254.

856. *Podothecus sturiodes* (Guichenot).

Same-tokubire.

Paragonus sturioides Guichenot, Nouv. Archiv. Mus., p. 202, pl. XII, fig. 3.
China.

Distrib.—Northern China ; Niigata, Japan (Nakamura).

857. *Podothecus xystes* Snyder.

Koshino-tokubire.

Podothecus xystes Snyder, Proc. U.S. Nat. Mus., XL, 1911, p. 441. Nagaoka.

Distrib.—Nagaoka, Niigata.

858. *Podothecus tokubire* Ishikawa.

Tokubire.

Podothecus tokubire Ishikawa, Proc. Dept. Nat. Hist., Tokyo Imp. Mus., I, 1904, p. 15. Hokkaidō.

Distrib.—Hokkaidō ; ? off Prov. Mutsu.

859. *Podothecus veternus* Jordan & Starks. (Fig. 255).

Podothecus veternus Jordan & Starks, Proc. Cal. Ac. Sci., 1895, p. 819, pl. LXXXIX. Robben I.

Distrib.—Robben I.

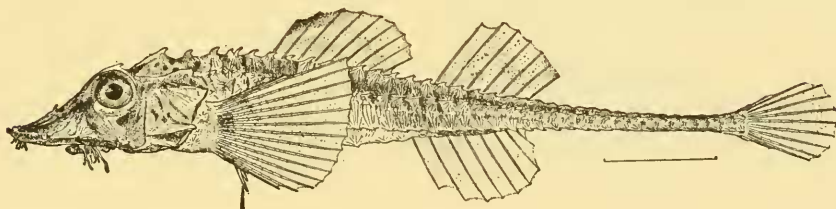


Fig. 255.

860. *Podothecus accipiter* Jordan & Starks. (Fig. 256).

Taka-tokubire.

Podothecus accipiter Jordan & Starks, Proc. Cal. Ac. Sci., 1895, p. 816, pl. LXXXVIII. Robben I.

Distrib.—Robben I.; Niigata, Japan.

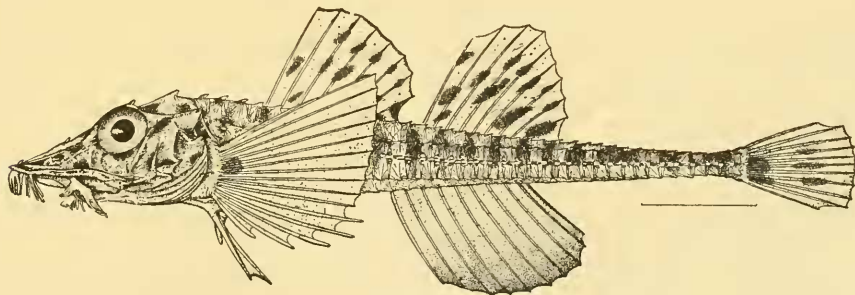


Fig. 256.

Genus *Aspidophoroides* Lacépède.*Aspidophoroides* Lacépède, Hist Nat. Poiss., III, 1802, p. 228.Type *Aspidophoroides tranquebar* Lacépède = *Cottus monopterygius* Bloch.**861. *Aspidophoroides bartoni* Gilbert.**

Tate-tokubire.

Aspidophoroides bartoni Gilbert., Rept. U. S. Fish Comm., 1893 (1896), p. 434. Aleutian Is., Bristol Bay, Alaska.

Distrib.—Aleutian Is.; Kayabe, Hokkaidō.

Genus *Sarritor* Cramer.*Sarritor* Cramer, in Jordan & Evermann, Check-List Fishes, 1896, p. 448.Type *Odontopyxis frenatus* Gilbert.**862. *Sarritor frenatus* (Gilbert). (Fig. 257).***Odontopyxis frenatus* Gilbert, Rept. U.S. Fish Commission, 1893, p. 437 (1896). North of Peninsula of Alaska.

Distrib.—Coast of Alaska ; Provostmaya, Kamchatka.

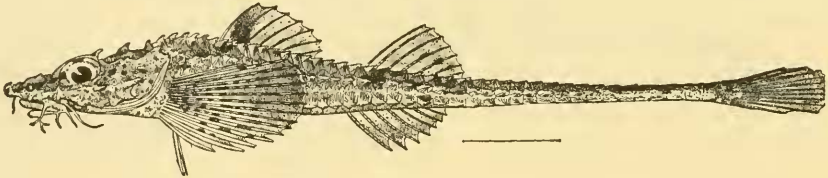


Fig. 257.

863. *Sarritor leptorhynchus* (Gilbert).*Odontopyxis leptorhynchus* Gilbert, Rept. U.S. Fish Comm., 1893 (1896), p. 437. Bering Sea, north of Alaska Peninsula.

Distrib.—Coast of Alaska.

Genus *Anoplagonus* Gill.*Anoplagonus* Gill, Proc. Acad. Nat. Sci. Phila., 1861, p. 259.Type *Aspidophoroides inermis* Günther.**864. *Anoplagonus inermis* (Günther).***Aspidophoroides inermis* Günther, Cat. Fish., II, 1860, p. 524. Vancouver Island.

Distrib.—Coast of Alaska, south to Vancouver Island ; Cape Pestschnuzoff, Korea.

Family CYCLOPTERIDÆ.**Genus Lethotremus** Gilbert.

Lethotremus Gilbert, Rept. U. S. Fish Comm., 1893 (1896), p. 449.

Type *Lethotremus nulticus* Gilbert.

865. *Lethotremus awæ* Jordan & Snyder. (Fig. 258).

Dango-uwo.

Lethotremus awæ Jordan & Snyder, Proc. U.S. Nat. Mus., XXIV, 1902, p. 344, fig. 1. Kominato, Bōshū.

Distrib.—Bōshū ; Misaki, Sagami.

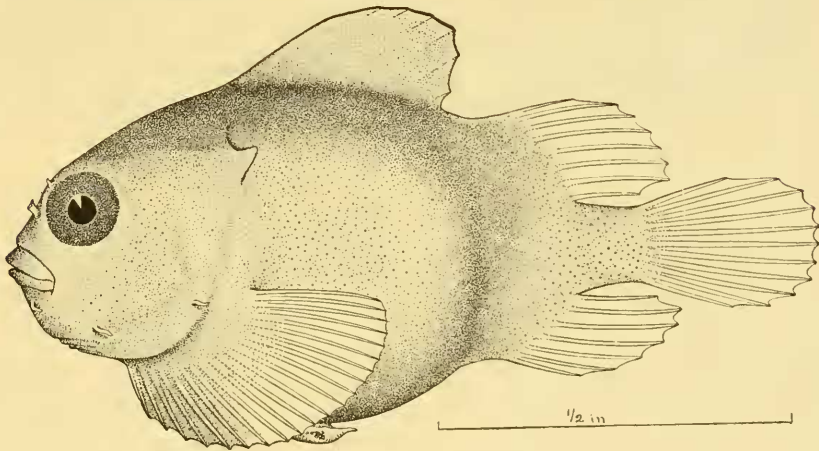


Fig. 258.

Genus Cyclopterichthys Steindachner.

Cyclopterichthys Steindachner, Ichth. Beiträge, X, 1881, p. 14.

Type *Cyclopterichthys glaber* Steindachner = *Cyclopterus ventricosus* Pallas.

866. *Cyclopterichthys ventricosus* (Pallas).

Hotei-uwo.

Cyclopterus ventricosus Pallas, Spicilegia, Zool., VII., 1769, p. 15, pl. II. Kamchatka.

Cyclopterichthys glaber Steindachner, Ichth. Beitr., X, 1881, p. 14, pl. VIII. Ochotsk Sea.

Distrib.—Bering Sea, southward to northern Japan; Aomori ; Kanazawa, Kaga.

Genus Eumicrotremus Gill.

Eumicrotremus Gill, Proc. Ac. Nat. Sci. Phila., 1864, p. 190.

Type *Cyclopterus spinosus* Müller.

867. Eumicrotremus orbis (Günther).

Ibo-dango.

Cyclopterus orbis Günther, Cat. Fish., III, 1861, p. 158. Vancouver Island.

Distrib.—Northern Pacific, south to Vancouver Island; Farays Padj, Saghalien.

868. Eumicrotremus pacificus Schmidt.

Fuusen-uwo.

Eumicrotremus pacificus Schmidt, Pisc. Mar. Orient., 1904, p. 154, Tab. V, fig. 2, a-c. Gulf of Peter the Great ; Aniva.

Distrib.—Gulf of Peter the Great ; Aniva.

869. Eumicrotremus brashnikowi Schmidt.

Oki-fuusen-uwo.

Eumicrotremus brashnikowi Schmidt, Pisc. Mar. Orient., 1904, p. 158, text-fig. 10. Ochotsk Sea.

Distrib.—Ochotsk Sea.

Family CYCLOGASTERIDÆ.**Genus Cyclogaster Gronow.***Liparis* Artedi, Genera, 1738, p. 117. (Binomial but prelinneæan).*Cyclogaster* Gronow, Museum, 1763, p. 157. (Nonbinomial).*Liparis* Scopoli, Introd. Hist. Nat., 1777, p. 453. (*Cyclopterus liparis* Linnæus).*Neoliparis* Steindachner, Ichth. Beitr., III, 1875, p. 57. (*Liparis mucosus* Ayres).*Careliparis* Garman, Discoboli, 1892, p. 56. (*Liparis agassizii* Putnam).*Lyoliparis* Jordan & Evermann, Check-List Fishes, 1896, p. 451. (*Liparis pulchellus* Ayres).*Trismegistus* Jordan & Snyder, Smithson. Misc. Coll., 45, April 11, 1904, p. 238. (*Trismegistus ovstoni* Jordan & Snyder).Type *Cyclogaster liparis* Linnæus.**870. Cyclogaster ochotensis Schmidt.**

Isago-bikunin.

Liparis ochotensis Schmidt, Pisc. Mar. Orient., 1904, p. 163, fig. 11. Ochotsk Sea.

Distrib.—Ochotsk Sea ; Aniva Bay, Saghalien.

871. Cyclogaster agassizii (Putnam).

Yezo-kusauwo.

Liparis agassizii Putnam, Proc. Am. Assoc. Adv. Sci., 1874, p. 339. Saghalien, Channel of Tartary.

Distrib.—North to Pacific ; south to Unalaska on the American side and to Matsushima Bay on the Japanese.

872. *Cyclogaster owstoni* (Jordan & Snyder). (Fig. 259).**Owston-kusa-uwo.***Trismegistus owstoni* Jordan & Snyder, Smithson. Misc. Coll., 45, April 11, 1904, p. 238, fig. 29. Enoshima, Sagami Bay.

Distrib.—Sagami Bay ; Nagasaki (Schmidt).

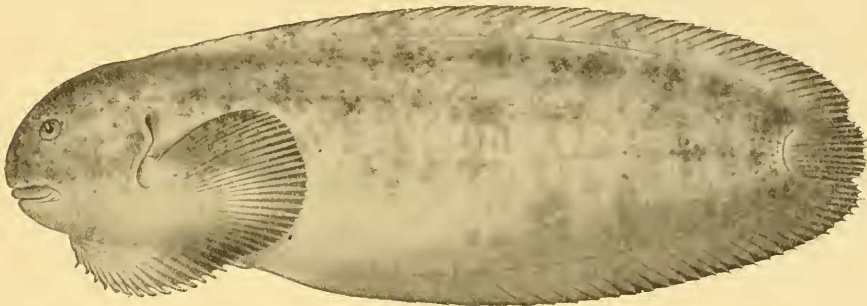


Fig. 259.

873. *Cyclogaster tanakæ* Gilbert & Burke.**Kusauwo (Ushitsu, Noto).***Liparis owstoni* Tanaka, Journ. Coll. Sci. Imp. Univ. Tokyo, XXIII, March 15, 1908, p. 45, pl. III, fig. 2. Sagami Sea ; Noto. (Not *Trismegistus owstoni* Jordan & Snyder).*Cyclogaster tanakæ* Gilbert & Burke, Proc. U. S. Nat. Mus., XLII, July 3, 1912, p. 357, pl. XLII, fig. 2.

Distrib.—Sagami Sea ; Noto ; Fusan, Korea.

874. *Cyclogaster curilensis* Gilbert & Burke.**Chishima-kusauwo.***Cyclogaster (Neoliparis) curilensis* Gilbert & Burke, Proc. U.S. Nat. Mus., XLII, July 3, 1912, p. 353, pl. XLI, fig. 1, textfig. 1. Milne Bay, Simushir Island, Japan.

Distrib.—Simushir Island.

875. *Cyclogaster simushiræ* Gilbert & Burke.**Shimushi-kusauwo.***Cyclogaster (Neoliparis) simushiræ* Gilbert & Burke, Proc. U.S. Nat. Mus., XLII, July 3, 1912, p. 353, pl. XLI, fig. 2. Milne Bay, Simushir Island.

Distrib.—Simushir Island.

876. *Cyclogaster tessellatus* Gilbert & Burke.

Bikunin (Nō, Echigo).

Cyclogaster tessellatus Gilbert & Burke, Proc. U.S. Nat. Mus., XLII, July 3, 1912, p. 355, pl. XLI, fig. 3, textfig 2. Off the southeast coast of Hokkaidō, west of Erimo Saki.

Distrib.—Southeast coast of Hokkaidō ; Nō, Prov. Echigo (Tanaka) ; off the coast of Korea.

877. *Cyclogaster frenatus* Gilbert & Burke.

Kanten-bikunin.

Cyclogaster frenatus Gilbert & Burke, Proc. U. S. Nat. Mus., XLII, 1912, p. 356, pl. XLII, fig. I. Sea of Japan, off the northwest coast of Hondo.

Distrib.—Off the northwest coast of Hondo.

878. *Cyclogaster ingens* Gilbert & Burke.

Kōrai-bikunin.

Cyclogaster ingens Gilbert & Burke, Proc. U.S. Nat. Mus., XLII, fig. I. Off the coast of Korea, in the Sea of Japan.

Distrib.—Off the coast of Korea, in the Sea of Japan.

Genus *Careproctus* Krøyer.

Careproctus Krøyer, Naturh. Tidsskr., I, 1862, p. 257.

Type *Liparis* (*Careproctus*) *reinhardi* Krøyer.

879. *Careproctus cypselurus* (Jordan & Gilbert).

Ai-bikunin.

Prognurus cypselurus Jordan & Gilbert, Rep. Fur-Seal Invest., pt. 3, 1899, p. 478, pl. LXVII. Bering Sea.

Distrib.—Bering Sea ; southern part of the Okhotsk Sea.

880. *Careproctus rastrinus* Gilbert & Burke.

Sake-bikunin.

Careproctus rastrinus Gilbert & Burke, Proc. U. S. Nat. Mus., XLII, 1912, p. 362, pl. XLIII, fig. 2, textfig. 3. Southern part of the Okhotsk Sea.

Distrib.—Southern part of the Okhotsk Sea ; off Cape Patience, Saghalien.

881. *Careproctus acanthodes* Gilbert & Burke.

Toge-bikunin.

Careproctus acanthodes Gilbert & Burke, Proc. U.S. Nat. Mus., XLII, 1912, p. 363, pl. XLIII, fig. 3, textfig. 4. Gulf of Tartary.

Distrib.—Gulf of Tartary.

882. *Careproctus trachysoma* Gilbert & Burke.

Zara-bikunin.

Careproctus trachysoma Gilbert & Burke, Proc. U.S. Nat. Mus., XLII, 1912, p. 364, pl. XLIV, fig. 1, textfigs. 5, 6. Northern part of the Japan Sea.

Distrib.—Off Sado Island; Shiruunku Bay, west coast of Hokkaidō; off the northwest coast of Hokkaidō; Gulf of Tartary.

883. *Careproctus rhodomelas* Gilbert & Burke.

Bara-bikunin.

Careproctus rhodomelas Gilbert & Burke, Proc. U.S. Nat. Mus., XLII, 1912, pl. XLIV, fig. 2, textfig. 7. Off the Bungo Channel, Japan.

Distrib.—Off the Bungo Channel; south of Suruga Bay.

884. *Careproctus pellucidus* Gilbert & Burke.

Ao-bikunin.

Careproctus pellucidus Gilbert & Burke, Proc. U.S. Nat. Mus., XLII, 1912, p. 366, pl. XLIV, fig. 3, textfig. 8. Off Matsushima Bay, east coast of Hondo

Distrib.—Off Matsushima Bay.

885. *Careproctus segaliensis* Gilbert & Burke.

Kabafuto-bikunin.

Careproctus segaliensis Gilbert & Burke, Proc. U.S. Nat. Mus., XLII, 1912, p. 367, pl. XLV, fig. 1, textfig. 9. Okhotsk Sea, off the southern part of Saghalien Island, in the vicinity of Cape Patience.

Distrib.—Saghalien, in the vicinity of Cape Patience.

886. *Careproctus bathycætus* Gilbert & Burke.

Soko-bikunin.

Careproctus bathycætus Gilbert & Burke, Proc. U.S. Nat. Mus., XLII, 1912, p. 368, pl. XLV, fig. 2, textfig. 10. Southern part of the Okhotsk Sea.

Distrib.—Southern part of the Okhotsk Sea.

887. *Careproctus roseofuscus* Gilbert & Burke.

Tobi-bikunin.

Careproctus roseofuscus Gilbert & Burke, Proc. U.S. Nat. Mus., XLII, 1912, p. 369, pl. XLV, fig. 3, textfig. II. Off the southeastern part of Saghalien Island, vicinity of Cape Patience.

Distrib.—Off the southeastern part of Saghalien; off Cape Tonin, east coast of Saghalien.

888. *Careproctus colletti* Gilbert.

Arasuka-bikunin.

Careproctus colletti Gilbert, Rept. Comm. Fish and Fisheries for 1893 (1896), p. 442. South of the Alaska Peninsula.

Distrib.—South of the Alaska Peninsula; off northwest coast of Hokkaidō; southern Okhotsk Sea, off Cape Patience.

889. *Careproctus sinensis* Gilbert & Burke.

Sekichiku-bikunin.

Careproctus sinensis Gilbert & Burke, Proc. U.S. Nat. Mus., XLII, 1912, p. 371, pl. XLVI, fig. 2, textfig. 13. Off Sado Island, Sea of Japan.

Distrib.—Off Sado Island.

890. *Careproctus pycnosoma* Gilbert & Burke.

Konnyaku-uwo.

Careproctus pycnosoma Gilbert & Burke, Proc. U. S. Nat. Mus., XLII, 1912, pl. XLVI, fig. 3, textfig. 14. Off Simushir Island, Japan.

Distrib.—Off Simushir Island.

891. *Careproctus curilanus* Gilbert & Burke.

Aka-konnyaku.

Careproctus curilanus Gilbert & Burke, Proc. U.S. Nat. Mus., XLII, 1912, pl. XLVII, fig. I, textfig. 15. Off Simushir Island, Japan.

Distrib.—Off Simushir Island.

892. *Careproctus homopterus* Gilbert & Burke.

Kuro-konnyaku.

Careproctus homopterus Gilbert & Burke, Proc. U.S. Nat. Mus., XLII, 1912, p. 374, pl. XLVII, fig. 2, textfig. 16. Southeast of Cape Patience, Saghalien.

Distrib.—Southeast of Cape Patience.

893. *Careproctus entomelas* Gilbert & Burke.

Soko-guro.

Careproctus entomelas Gilbert & Burke, Proc. U. S. Nat. Mus., XLII, 1912, p. 374, pl. XLVII, fig. 3. Shiruunku Bay, west coast of Hokkaidō.

Distrib.—Shiruunku Bay, west coast of Hokkaidō; ? west of Tsuruga.

894. *Careproctus entargyreus* Gilbert & Burke.**Soko-shiro.***Careproctus entargyreus* Gilbert & Burke, Proc. U. S. Nat. Mus., XLII, 1912, p. 375, pl. XLVII, fig. 4, textfig. 18. Gulf of Tartary.

Distrib.—Gulf of Tartary.

Genus *Crystallias* Jordan & Snyder.*Crystallias* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p. 349.Type *Crystallias matsushimæ* Jordan & Snyder.**895. *Crystallias matsushimæ* Jordan & Snyder. (Fig. 260).****Abachan (Nō, Echigo).***Crystallias matsushimæ* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p. 350, fig. 2. Bay of Matsushima.

Distrib.—Bay of Matsushima; near Sado Island; off Nō, Echigo; off Korea, sea of Japan; off northwest end of Hokkaidō; off Cape Patience, Saghalien.

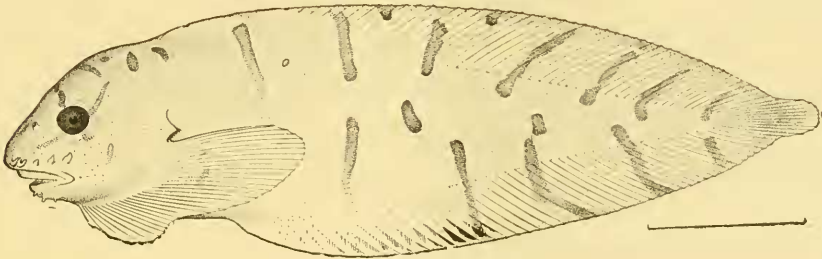


Fig. 26c.

Genus *Paraliparis* Collett.*Paraliparis* Collett, Vid. Selsk. Forh. Christiana, 14, 32, 1878.Type *Liparis (Paraliparis) bathybii* Collett.**896. *Paraliparis atramentatus* Gilbert & Burke.****Inki-uwo.***Paraliparis atramentatus* Gilbert & Burke, Proc. U. S. Nat. Mus., XLII, 1912, p. 377, pl. XLVIII, fig. 1. Off the east coast of Hondo.

Distrib.—Off the east coast of Hondo.

897. *Paraliparis melanobranchus* Gilbert & Burke.**Tobi-inki.***Paraliparis melanobranchus* Gilbert & Burke, Proc. U. S. Nat. Mus., XLII, 1912, p. 378, pl. XLVIII, fig. 2. Southern part of the Okhotsk Sea.

Distrib.—Southern part of the Okhotsk Sea.

898. *Paraliparis entochloris* Gilbert & Burke.

Momoiro-inki.

Paraliparis entochloris Gilbert & Burke, Proc. U. S. Nat. Mus., XLII, 1912, p. 378, pl. XLVIII, fig. 3. Southern part of the Okhotsk Sea.

Distrib.—Southern part of the Okhotsk Sea.

Genus *Rhinoliparis* Gilbert.

Rhinoliparis Gilbert, Rept. U. S. Fish Comm., 1893 (1895), p. 445.

Type *Rhinoliparis barbulifer* Gilbert.

899. *Rhinoliparis barbulifer* Gilbert.

Shiro-hige-konnyaku.

Rhinoliparis barbulifer Gilbert, Rept. U. S. Fish Comm., 1893 (1895), p. 445. Bering Sea, north of Unalaska Island.

Distrib.—Bering Sea, north of Unalaska Island ; southern part of the Okhotsk Sea off the coast of Saghalien ; off the south coast of Hokkaidō ; near Matsushima Bay.

Genus *Nectoliparis* Gilbert & Burke.

Nectoliparis Gilbert & Burke, Bull. Bur. Fisheries, XXX, 1910 (May 6, 1912), p. 82.

Type *Nectoliparis pelagicus* Gilbert & Burke.

900. *Nectoliparis pelagicus* Gilbert & Burke.

Kanten-uwo.

Nectoliparis pelagicus Gilbert & Burke, Bull. Bur. Fish., XXX, 1910 (May 6, 1912), p. 82, fig. 27. Between Attu and Medni Islands.

Distrib.—Bering Sea ; the Okhotsk ; off southeast coast of Hokkaidō.

Family ECHENEIDIDÆ.

Genus *Leptecheneis* Gill.

Leptecheneis Gill, Proc. Ac. Nat. Sci. Phila., 1864, p. 60.

Type *Echeneis neucrates* (misprint for *naucrates*) Linnæus.

901. *Leptecheneis naucrates* (Linnæus).

Koban-zame ; Koban-itadaki.

Echeneis neucrates (misprint for *naucrates*) Linnæus, Syst. Nat., 10th ed., 1758, p. 261. "In Pelago Indico."

Distrib.—Warm seas, universally distributed.

Genus Remorina Jordan & Evermann.*Remorina* Jordan & Evermann, Check-List Fishes, 1896, p. 490.Type *Echeneis albescens* Temminck & Schlegel.**902. Remorina albescens** (Temminck & Schlegel).

Shiro-koban.

Echeneis albescens Temminck & Schlegel, Fauna Japonica, Poiss., 1842, p. 272,
pl. CXX, fig. 3. Nagasaki.

Distrib.—Nagasaki to Tōkyō.

903. Remorina brachyptera (Lowe).

Kuro-koban.

Echeneis brachyptera Lowe, Proc. Zool. Soc. Lond., 1839, p. 89. Madeira.*Echeneis pallida* Temminck & Schlegel, Fauna Japonica, Poiss., 1850, p. 271,
pl. CXX, figs. 2.3. Nagasaki.

Distrib.—Warm seas, north to Cape Cod.

Genus Echeneis (Artedi) Linnaeus.*Echeneis* (Artedi) Linnaeus, Syst. Nat., 10th ed., 1758, p. 260.Type *Echeneis remora* Linnaeus.**904. Echeneis remora** Linnaeus.*Echeneis remora* Linnaeus, Syst. Nat., 10th ed., 1758, p. 260. "In Pelago
Indico."

Distrib.—Warm seas, north to New York and San Francisco.

Genus Rhombochirus Gill.*Rhombochirus* Gill, Proc. Acad. Nat. Sci. Phila., 1863, p. 88.Type *Echeneis osteochir* Cuvier.**905. Rhombochirus megalodiscus** (Franz).

Hishi-koban.

Echeneis megalodiscus Franz, Abh. Bayer Akad., 1910, p. 69, taf. VIII, fig. 57.
Yokohama; Aburatsubo.

Distrib.—Sagami Sea.

Family PLEURONECTIDÆ.**Genus Platophrys** Swainson.*Platophrys* Swainson, Nat. Hist. Class'n, Fishes, II, 1839, p. 302.*Rhomboidichthys* Bleeker, Act. Soc. Sci. Indo. Nederl. Manad. and Makassar,
1857-58, p. 67 (*Rhombus myriaster* Temminck & Schlegel).

Type *Rhombus ocellatus* Agassiz.

906. *Platophrys myriaster* (Temminck & Schlegel).

Hoshi-daruma-garei.

Rhombus myriaster Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 181, pl. XCII, fig. 2. Nagasaki.

Distrib.—Southern Japan, southward to China, Formosa, and the East Indies ; north to the island of Kiusiu.

907. *Platophrys circularis* Regan.

Maru-daruma-garei.

Platophrys circularis Regan, Trans. Linn. Soc., XII, 3, 1908, p. 233, pl. 26. Seychelles.

Distrib.—Seychelles ; Fukuura (Franz).

Genus *Scæops* Jordan & Satrks.

Scæops Jordan & Starks, Bull. U. S. Fish Comm., XXII, 1902 (1904), p. 627.

Type *Rhombus grandisquama* Temminck & Schlegel.

903. *Scæops kobensis* Jordan & Starks. (Fig. 261).

Kōbē-daruma-garei.

Scæops kobensis Jordan & Starks, Proc. U. S. Nat. Mus., XXXI, 1906, p. 170, fig. 2. Kōbe.

Distrib.—Kōbe.

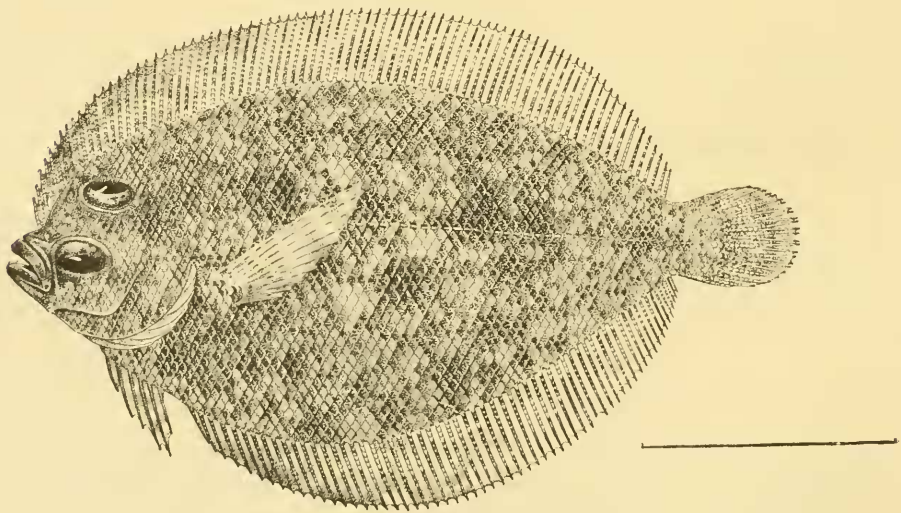


Fig. 261.

909. *Scæops grandisquama* (Temminck & Schlegel). (Fig. 262).*Daruma-garei*; *Maruta-garei*.*Rhombus grandisquama* Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 183, pl. XCII, figs. 3, 4. Nagasaki.

Distrib.—Sandy coasts of Japan, northward to Misaki, Sagami.

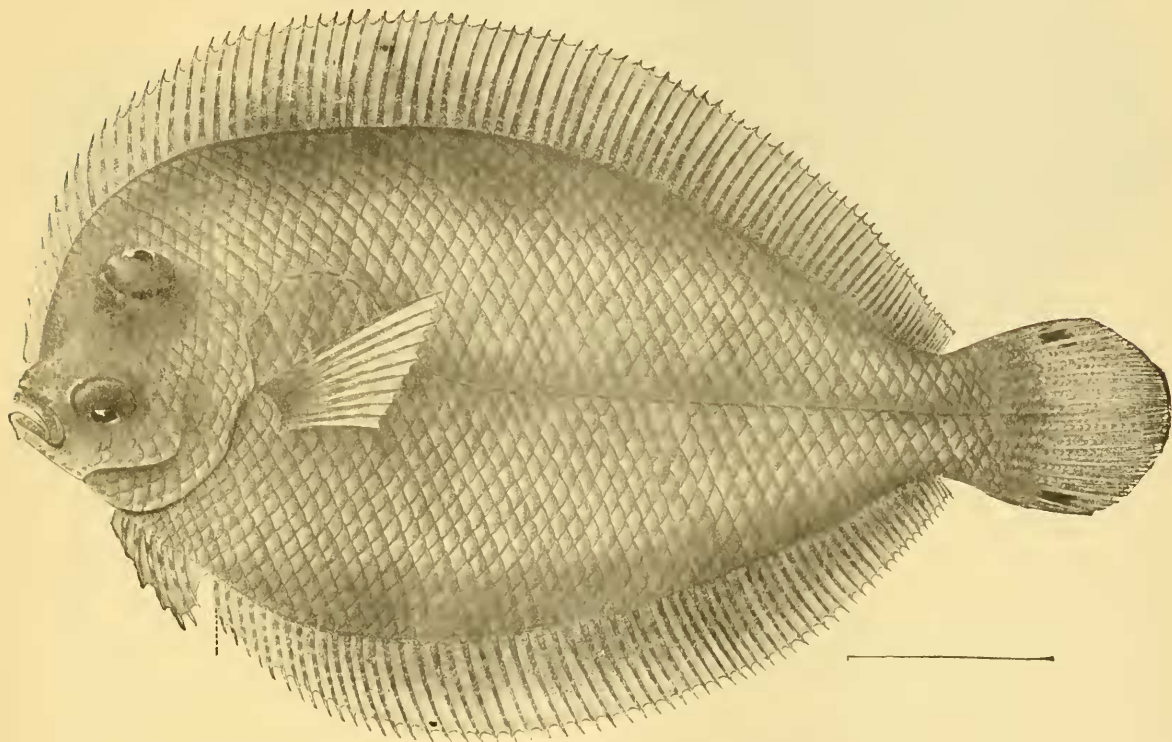


Fig. 262.

Genus *Engyprosopon* Günther.*Engyprosopon* Günther, Cat. Fish., IV, 1864, p. 431.Type *Rhombus mogkii* Bleeker.910. *Engyprosopon iijimæ* Jordan & Starks. (Fig. 263).*Iijima-daruma-garei*.*Engyprosopon iijimæ* Jordan & Starks, Bull. U. S. Fish Comm., XXII, 1904, p. 626, pl. VIII, fig. 1. Suruga Bay, Japan.

Distrib.—Suruga Bay.

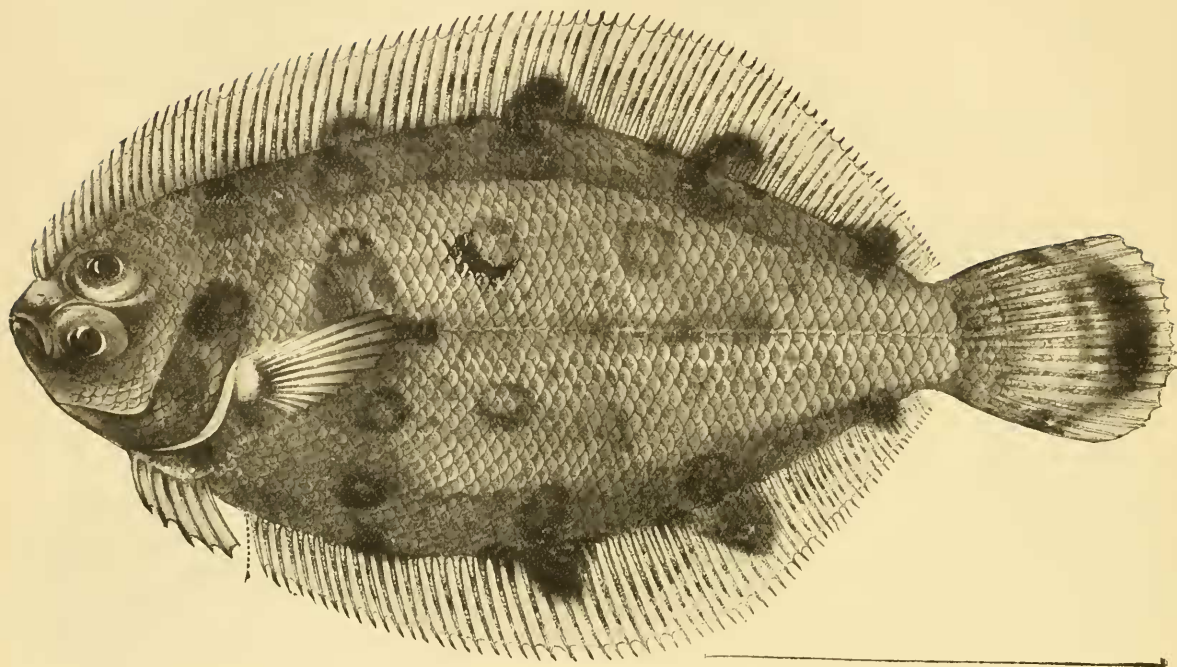


Fig. 263.

Genus *Læops* Günther.

Læops Günther, Challenger Shore Fishes, I, 1880, p. 29.

Type *Læops parviceps* Günther.

911. *Læops lanceolata* Franz.

Yari-garei.

Læops lanceolata Franz, Abh. Bayer. Akad., 1910, p. 62, taf. VIII, fig. 60.

Fukuura ; Dzushi.

Distrib.—Fukuura ; Dzushi.

912. *Læops variegata* Franz.

Inadsuma-garei.

Læops variegata Franz, Abh. Bayer. Akad., 1910, p. 63, taf. VIII, fig. 59.

Fukuura ; Dzushi.

Distrib.—Fukuura ; Dzushi.

Genus *Arnoglossus* Bleeker.

Arnoglossus Bleeker, Comp. Rend. Acad. Sci. Amsterd., XIII, 1862, p. 6.

Type *Pleuronectes arnoglossus* Blch & Schneider.

913. *Arnoglossus violaceus* Franz.**Sumire-garei.***Arnoglossus violaceus* Franz, Abh. Bayer. Akad., 1910, p. 61, taf. VII, fig. 56.

Aburatsubo.

Distrib.—Sagami Sea.

Genus *Trachypterophrys* Franz.*Trachypterophrys* Franz, Abh. Bayer. Akad., 1910, p. 60.Type *Trachypterophrys raptator* Franz.**914. *Trachypterophrys raptator* Franz.****Zara-garei.***Trachypterophrys raptator* Franz, Abh. Bayer. Akad., 1910, p. 60, taf. VII, fig. 54. Fukuura.

Distrib.—Fukuura.

Genus *Pseudorhombus* Bleeker.*Pseudorhombus* Bleeker, Comptes Rendues, Amsterd., XIII, 1862, p. 5.*Rhombiscus* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 379(*Rhombus cinnamomeus* Temminck & Schlegel).Type *Rhombus polyspilos* Bleeker.**915. *Pseudorhombus cinnamomeus* (Temminck & Schlegel).****Ganzō-birame.***Rhombus cinnamomeus* Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 180, pl. XCIII. Nagasaki.

Distrib.—Tōkyō to Nagasaki ; Hong Kong, China.

916. *Pseudorhombus oligodon* (Bleeker).**Nanyō-garei.***Rhombus oligodon* Bleeker, Verh. Bat. Gen., XXVI, 1857, Nieuw. Nalez., Japan, p. 121. Nagasaki.

Distrib.—Nagasaki to Formosa.

917. *Pseudorhombus arsius* (Buchanan-Hamilton).**Tenjiku-garei.***Pleuronectes arsius* Buchanan-Hamilton, Fishes Ganges, 1822, p. 128. Ganges ;

Day Fishes India, 1877, p. 423, pl. XCI, fig. 5.

Distrib.—India ; Shimidzu ; Kagoshima (Snyder).

918. *Pseudorhombus misakius* Jordan & Starks. (Fig. 264).

Misaki-birame.

Pseudorhombus misakius Jordan & Starks, Proc. U.S. Nat. Mus., XXXI, 1906, p. 175, figs. 4, 5. Kōbe.

Distrib.—Misaki, Sagami to Kōbe ; Tsuruga.

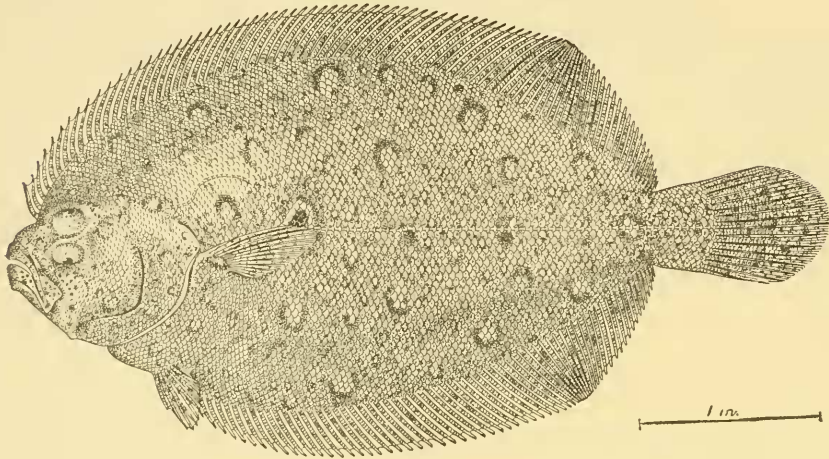


Fig. 264.

919. *Pseudorhombus ocellifer* Regan.

Tama-ganzo-birame.

Pseudorhombus ocellifer Regan, Ann. Mag. Nat. Hist., 1905, p. 25. Inland Sea of Japan.

Distrib.—All coasts of southern and central Japan, north to Mororan on Volcano Bay.

920. *Pseudorhombus dupliciocellatus* Regan.

Megarei.

Pseudorhombus dupliciocellatus Regan, Ann. Mag. Nat. Hist., 1905, p. 26. Kōbe.

Distrib.—Inland Sea of Japan.

921. *Pseudorhombus oligolepis* Bleeker.

Arame-garei.

Rhombus oligolepis Bleeker, Vifde Bijdrag Japan, 1869, p. 8, pl. II, fig. 2. Nagasaki.

Distrib.—Nagasaki.

Genus *Plagiopsetta* Franz.*Plagiopsetta* Franz, Abh. Bayer. Akad., 1910, p. 64.Type *Plagiopsetta glossa* Franz.922. *Plagiopsetta glossa* Franz.

Bero-garei.

Plagiopsetta glossa Franz, Abh. Bayer. Akad., 1910, p. 64, taf. VIII, fig. 58.

Yagoshima. (Misprint for Jōgashima).

Distrib.—Jōgashima, Sagami.

Genus *Lambdopsetta* Smith & Pope.*Lambdopsetta* Smith & Pope, Proc. U.S. Nat. Mus., XXXI, 1906, p. 496.Type *Lambdopsetta kitaharæ* Smith & Pope.923. *Lambdopsetta kitaharæ* Smith & Pope. (Fig. 265).

Natsu-garei.

Lambdopsetta kitaharæ Smith & Pope, Proc. U. S. Nat. Mus., XXXI, 1906,
p. 496, fig. 12. Kagoshima.

Distrib.—Kagoshima.

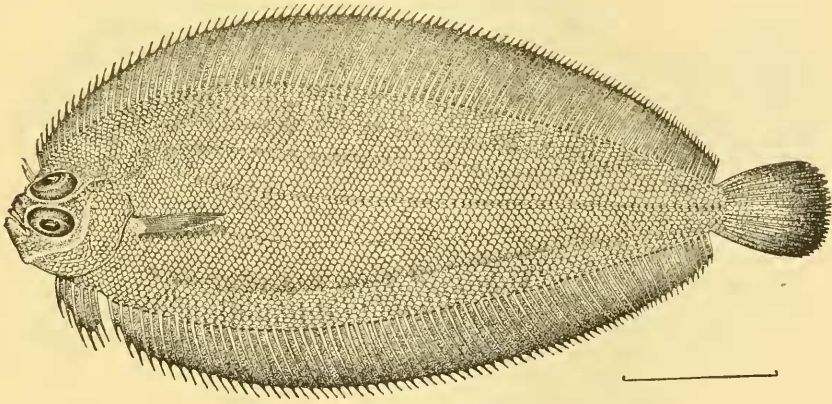


Fig. 265.

Genus *Paralichthys* Girard.*Paralichthys* Girard, U. S. Pac. R. R. Surv., X, 1858, p. 146.Type *Pleuronectes maculosus* Girard = *Hippoglossus californicus* Ayres.924. *Paralichthys olivaceus* (Temminck & Schlegel).

Hirame; Magarei; Aoba-garei.

Hippoglossus olivaceus Temminck & Schlegel, Fauna Japonica, Poiss., 1846,
p. 184, pl. XCIV. Nagasaki.

Chænopsetta wolffi Bleeker, Enum. Poiss. Connues du Japon, 1879, p. 21.
Nagasaki.

Distrib.—All coasts of Japan, north to Volcano Bay.

Genus *Verasper* Jordan & Gilbert.

Verasper Jordan & Gilbert, Report Fur Seal Invest., III, 1899, p. 490.

Type *Verasper moseri* Jordan & Gilbert.

925. *Verasper moseri* Jordan & Gilbert. (Fig. 266).

Kurosui-karei.

Verasper moseri Jordan & Gilbert, Rept. Fur Seal Invest., III, 1898, p. 490,
pl. LXXXV. Shana Bay, Iturup Island, Kuril Group.

Distrib.—Iturup ; Hakodate ; Aomori ; Mororan ; Same.

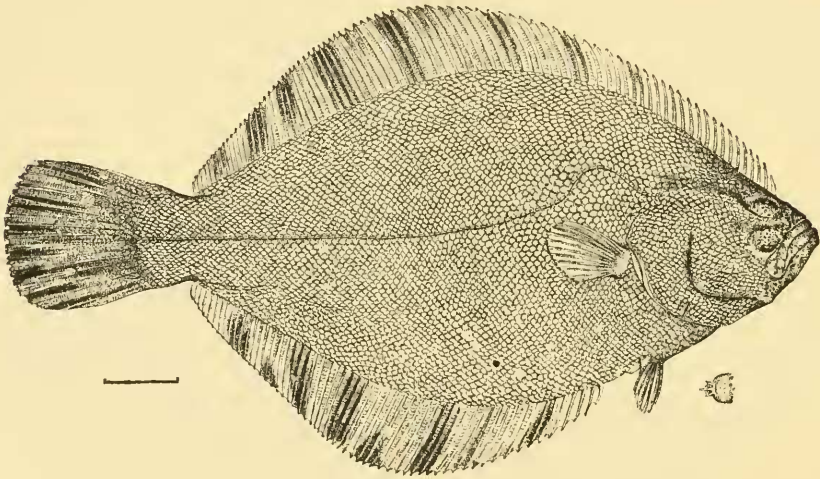


Fig. 266.

926. *Verasper variegatus* (Temminck & Schlegel).

Medaka-karei ; Hoshi-garei ; Ishiamate ; Mushigarei (Prov. Mutsu).

Platessa variegata Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p.
176, pl. XC. Nagasaki.

Distrib.—Southern Japan, north to Matsushima Bay.

Genus *Acanthopsetta* Schmidt.

Acanthopsetta Schmidt, Faune Mer. Och., 1903, p. 19. Name only.

Type *Acanthopsetta nadeshnyi* Schmidt.

627. *Acanthopsetta nadeshnyi* Schmidt.

Acanthopsetta nadeshnyi Schmidt, Faune Mer. Ochotsk, Japan, 1903, p. 19.
 Japan Sea, Vladivostok; mouth of Amur, etc.; name only; Pisc. Mar.
 Orient., 1904, p. 237, pl. V, fig. 1. Vladivostok; Aneva; Askuld; Khaliz;
 mouth of Amur; Broughton Gulf; Paratondra, etc.
 Distrib.—Sea of Ochotsk.

Genus *Xystrias* Jordan & Starks.

Xystrias Jordan & Starks, Bull. U.S. Fish. Comm., XXII, 1902 (1904), p. 623.
 Type *Hippoglossus grigorjewi* Herzenstein.

928. *Xystrias grigorjewi* (Herzenstein). (Fig. 267).

Mushi-garei; Midsu-garei.

Hippoglossus grigorjewi Herzenstein, Bull. Ac. Sci. Imp. Petersb., 1890, p.
 134. Hakodate.
Verasper otakii Jordan & Snyder, Proc. U.S. Nat. Mus., 1900, p. 378. Tōkyō.
 Distrib.—Tōkyō to Hakodate.

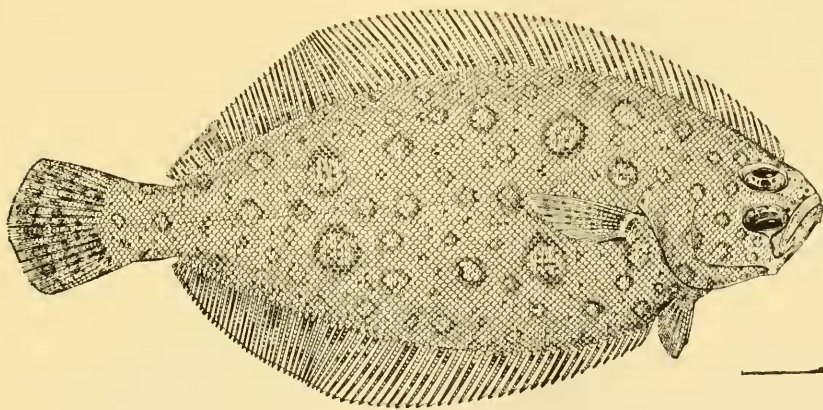


Fig. 267.

Genus *Hippoglossoides* Gottsche.

Hippoglossoides Gottsche, Archiv für Naturgesch., 1835, p. 164.
 Type *Hippoglossoides limanda* Gottsche = *Pleuronectes platessoides*
 Fabricius.

929. *Hippoglossoides elassodon* Jordan & Gilbert. (Fig. 268).

Uma-garei.

Hippoglossoides elassodon Jordan & Gilbert, Proc. U. S. Nat. Mus., 1880, p. 278. Seattle ; Tacoma.

Distrib.—Bering Sea, Okhotsk Sea, south to Puget Sound ; Kamchatka.

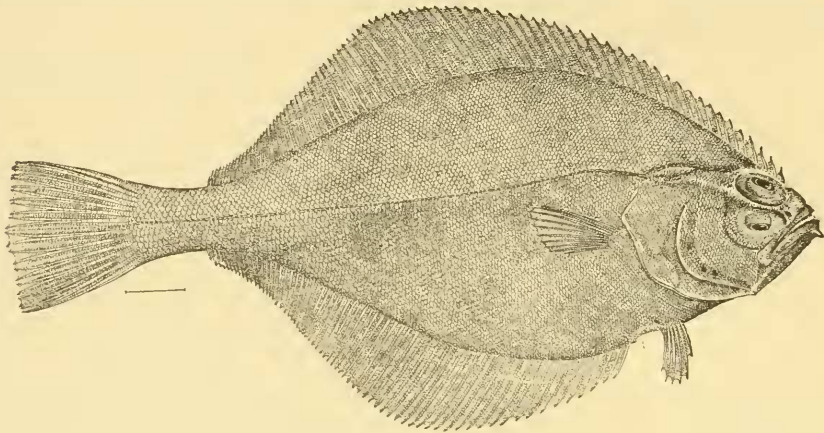


Fig. 268.

930. *Hippoglossoides katakuræ* Snyder.

Oki-uma-garei.

Hippoglossoides katakuræ Snyder, Proc. U. S. Nat. Mus., XL, 1911, p. 546. Otaru.

Distrib.—Northern Japan.

931. *Hippoglossoides hamiltoni* Jordan & Gilbert. (Fig. 269).

Doro-garei.

Hippoglossiides hamiltoni Jordan & Gilbert, Rept. Fur Seal Invest., III, 1892, p. 489, pl. LXXXIV. Dalnoi Point, Kamchatka.

Distrib.—Okhotsk Sea ; Kamchatka.

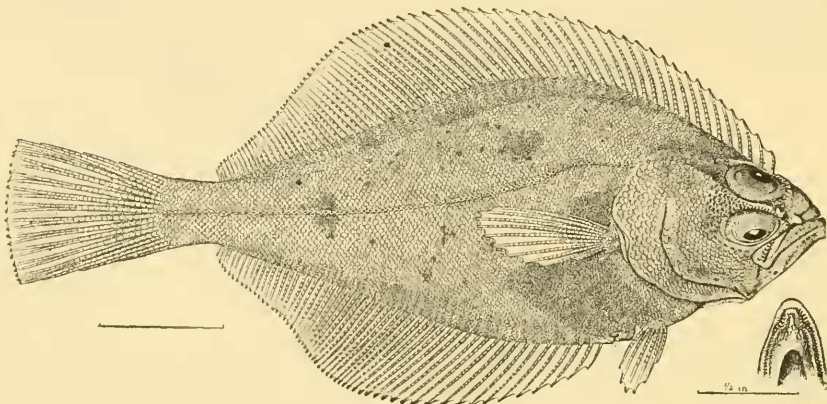


Fig. 269.

Genus *Cynopsetta* Schmidt.

Cynopsetta Schmidt, Fauna Mer. Ochotsk, Jap., 1903, p. 19. Name only.

Type *Cynopsetta dubia* Schmidt.

932. *Cynopsetta dubia* Schmidt.

Abura-garei; Wakasa-garei.

Cynopsetta dubia Schmidt, Faune Mer. Ochotsk, Jap., 1903, p. 19. Japan Sea; Ochotsk Sea; no description.

Hippoglossoides dubius Schmidt, Pisc. Mar. Orient., 1904, p. 227, pl. VI, fig.

1. Mayka and Gulf of Aniva; Sea of Ochotsk.

Distrib.—Ochotsk Sea, south to northern Japan.

Genus *Protopsetta* Schmidt.

Protopsetta Schmidt, Pisc. Mar. Orient., 1904, p. 230.

Type *Hippoglossoides herzensteini* Schmidt.

933. *Protopsetta herzensteini* (Schmidt).

Chigo-garei.

Hippoglossoides herzensteini Schmidt, Pisc. Mar. Orient., 1904, p. 229.

Broughton Bay; Gensan; Korea; Bay of Paris at Vladivostok; Mauka; north coast of Saghalien; Lake Khalizan.

Distrib.—Japan Sea; Okhotsk Sea, south to Korea.

Genus *Atheresthes* Jordan & Gilbert.

Atheresthes Jordan & Gilbert, Proc. U.S. Nat. Mus., 1880, p. 51.

Type *Platysomatichthys stomias* Jordan & Gilbert.

934. *Atheresthes evermanni* Jordan & Starks. (Fig. 270).

Yagata-garei.

Atheresthes evermanni Jordan & Gilbert, Bull. U.S. Fish Comm., XXII, 1902 (1904), p. 630, pl. V, fig. 1. Matsushima Bay.

Distrib.—Matsushima Bay.

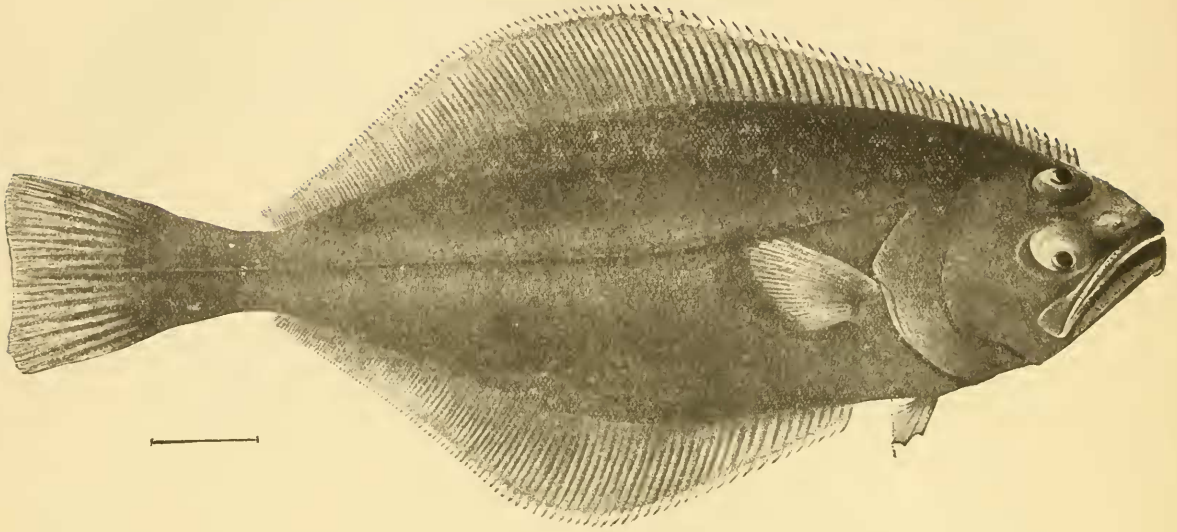


Fig. 27c.

Genus Reinhardtius Gill.

Reinhardtius Gill, Cat. Fishes, East Coast N. A., 1861, p. 50. No description.

Type *Pleuronectes hippoglossoides* Walbaum.

935. Reinhardtius matsuurae Jordan & Snyder.

Karasu-garei (Sagami).

Reinhardtius matsuurae Jordan & Snyder, Journ. Coll. Sci. Imp. Univ. Tokyo, XV, 1901, p. 309, pl. XVI, figs. 7, 8. Sagami Bay.

Distrib.—Misaki, Sagami.

Genus Hippoglossus Cuvier.

Hippoglossus Cuvier, Règne Animal, 1st ed., II, 1817, p. 221.

Type *Pleuronectes hippoglossus* Linnæus.

936. Hippoglossus stenolepis Schmidt.

Umano-shita.

Hippoglossus stenolepis Schmidt, Faune Mer. Och. Jap., 1903, p. 19. Okhotsk Sea. Name only. Pisc. Mar. Orient, 1904, p. 224. Gulf of Aniva.

Distrib.—Okhotsk Sea.

Genus Cleisthenes Jordan & Starks.

Cleisthenes Jordan & Starks, Bull. U. S. Fish Comm., XXII, 1902 (1904), p. 622.

Type *Cleisthenes pinctorum* Jordan & Starks.

937. *Cleisthenes pinetorum* Jordan & Starks. (Fig. 271).

Narihira-garei.

Cleisthenes pinetorum Jordan & Starks, Bull. U. S. Fish Comm., XXII, 1902 (1904), p. 622, with plate. Kinkwazan Island, Bay of Matsushima.

Distrib.—Bay of Matsushima.

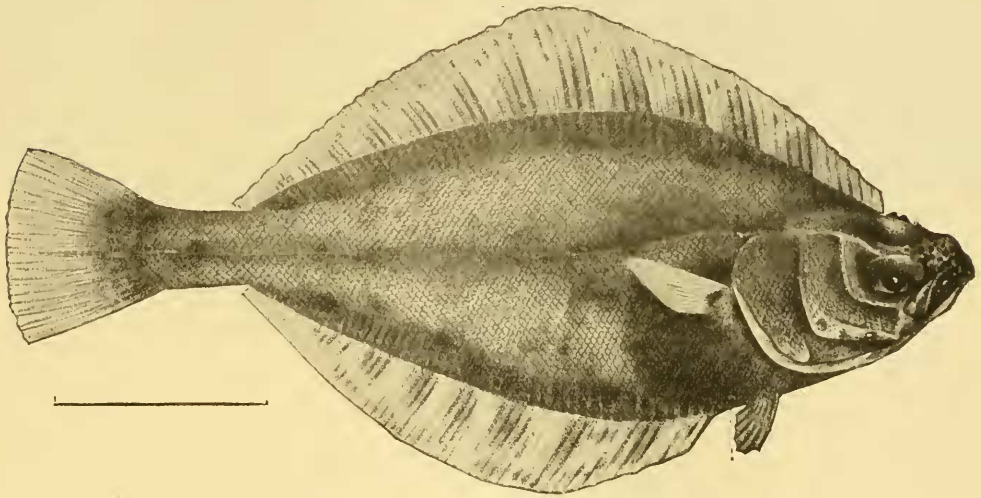


Fig. 271.

Genus *Alæops* Jordan & Starks.

Alæops Jordan & Starks, Bull. U.S. Fish Comm., XXII, 1902 (1904), p. 623.

Type *Alæops plinthus* Jordan & Starks.

938. *Alæops plinthus* Jordan & Starks. (Fig. 272).

Kawara-garei.

Alæops plinthus Jordan & Starks, Bull. U.S. Fish Comm., XXII, 1902 (1904), p. 623, pl. V, fig. 2. Suruga Bay ; Owari Bay.

Distrib.—Suruga Bay ; Owari Bay.

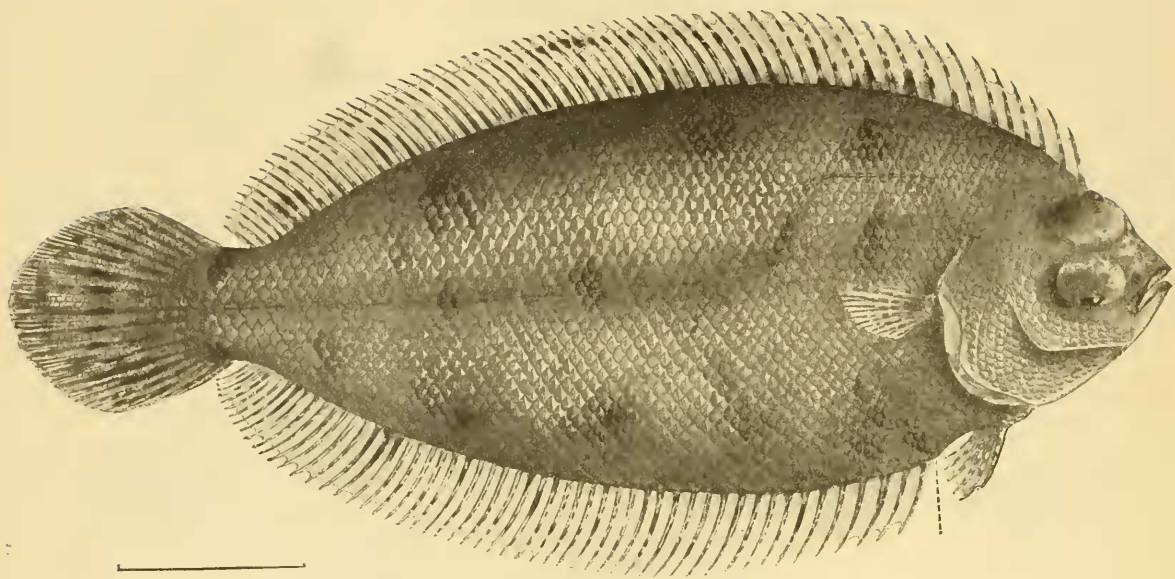


Fig. 272.

Genus *Dexistes* Jordan & Starks.

Dexistes Jordan & Starks, Bull. U.S. Fish Comm., XXII, 1904, p. 624.

Araias Jordan & Starks, Bull. U. S. Fish Comm., XXII, 1904, p. 624

(*Araias ariommus* Jordan & Starks).

Type *Dexistes rikuzenius* Jordan & Starks.

939. *Dexistes rikuzenius* Jordan & Starks. (Fig. 273).

Migi-garei.

Dexistes rikuzenius Jordan & Starks, Bull. U. S. Fish Com., XXII, 1904, p. 624, pl. VI, fig. 1. Matsushima Bay ; Suruga Bay.

Araias ariommus Jordan & Starks, Bull. U. S. Fish Com., XXII, 1904, p. 624, pl. VI, fig. 2. Matsushima Bay.

Distrib.—East coast of central Japan.

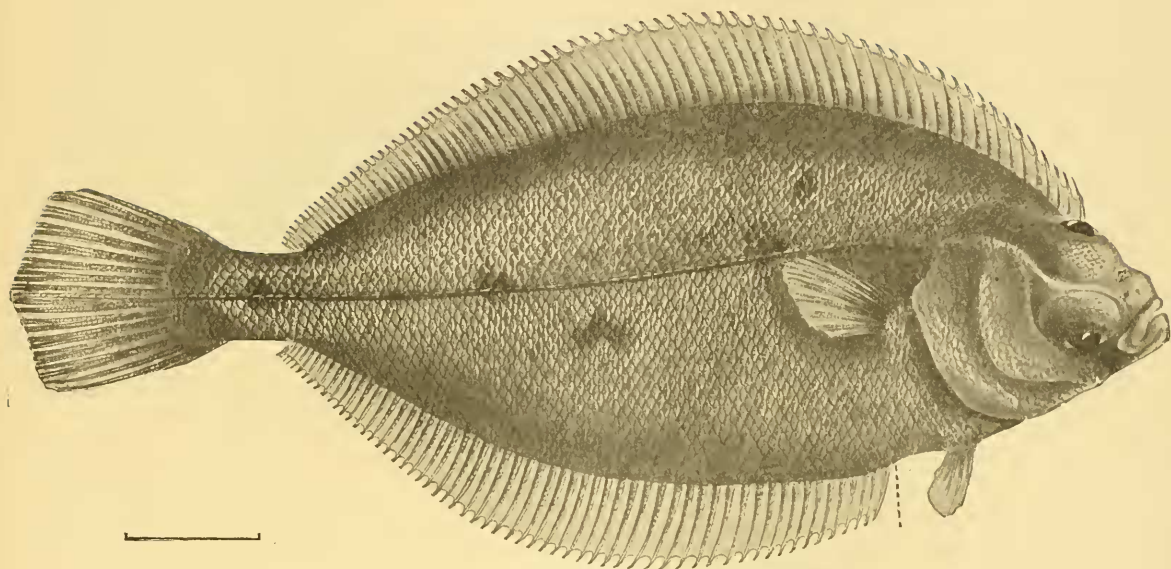


Fig. 273.

Genus *Pleuronichthys* Girard.

Pleuronichthys Girard, Proc. Ac. Nat. Sci. Phila., 1854, p. 139.

Heteroprosopon Bleeker, Comptes Rendus Acad. Amsterdam, XIII, 1862, p. 8
(*Platessa cornuta* Temminck & Schlegel).

Type *Pleuronichthys coenosus* Girard.

940. *Pleuronichthys cornutus* (Temminck & Schlegel).

Meita-garei (Misaki, Sagami); *Biki-garei*; *Mochi-garei*; *Michigarei*; *Ōmi-garei*.

Platessa cornuta Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 179,
pl. XC, fig. 1. Nagasaki.

Distrib.—Hakodate to Nagasaki.

Genus *Lepidopsetta* Gill.

Lepidopsetta Gill, Proc. Ac. Nat. Sci. Phila., 1864, p. 195.

Type *Platichthys umbresus* Girard = *Platessa bilineata* Ayres.

941. *Lepidopsetta bilineata* (Ayres). (Fig. 274).

Koke-garei.

Platessa bilineata Ayres, Proc. Ac. Nat. Sci. Cal., 1855, p. 40. San Francisco.

Distrib.—Bering Sea, south to Monterey and to Korea; Sea of Ochotsk; Sea of Japan.

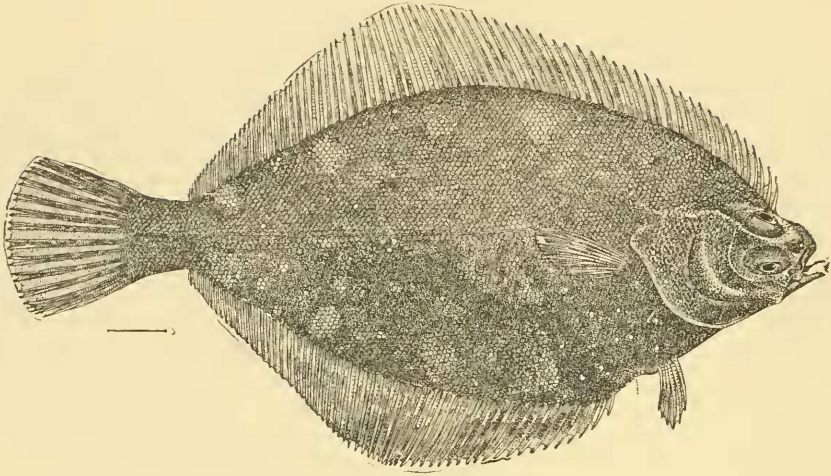


Fig. 274.

942. *Lepidopsetta mochigarei* Snyder.

Kōri-mochigarei.

Lepidopsetta mochigarei Snyder, Proc. U. S. Nat. Mus., XL., 1911, p. 547.

Otaru.

Distrib.—Northern Japan.

Genus *Limanda* Gottsche.*Limanda* Gottsche, Archiv für Naturgesch., 1835, p. 100.*Limandella* Jordan & Starks, Proc. U. S. Nat. Mus., XXXI, 1906, p. 204
(*Pleuronectes yokohamæ* Günther).Type *Pleuronectes limanda* Linnæus.943. *Limanda angustirostris* Kitahara. (Fig. 275).

Kitsune-garei.

Limanda angustirostris Kitahara, in Jordan & Starks, Proc. U.S. Nat. Mus.,
XXXI, 1906, p. 208, fig. 15. Aomori.

Distrib.—Aomori.

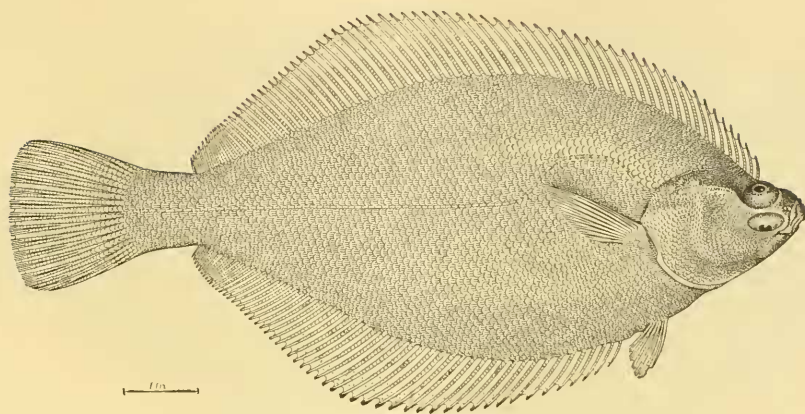


Fig. 275.

944. *Limanda schrencki* Schmidt.

Kōri-garei.

Limanda schrencki Schmidt, Faune Mer. Okhotsk, Japan, 1903, p. 19. Japan Sea ; Okhotsk Sea. Name only.—Pisc. Mar. Orient., 1904, p. 235. Aneva ; Mauka, Saghalien.

Distrib.—Saghalien.

945. *Limanda yokohamæ* (Günther).

Mako-garei ; Akagarei ; Amate ; Yamate.

Pleuronectes yokohamæ Günther, Shore Fishes Challenger, 1880, p. 69. Inland Sea of Japan ; Yokohama.

Pleuronectes japonicus Herzenstein, Bull. Ac. Sci. Petersb., 1894, p. 130. Hakodate ; Vladivostok. (Not *Pleuronectes japonicus* Houttuyn).

Limanda herzensteini Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 746. After Herzenstein.

Distrib.—Mororan to Onomichi ; Echigo ; Tsuruga ; Vladivostok.

946. *Limanda iridorum* Jordan & Starks. (Fig. 276).

Ran-garei.

Limanda iridorum Jordan & Starks, Proc. U. S. Nat. Mus., XXXI, 1906, p. 206, fig. 14. Mororan.

Distrib.—Mororan to Aomori.

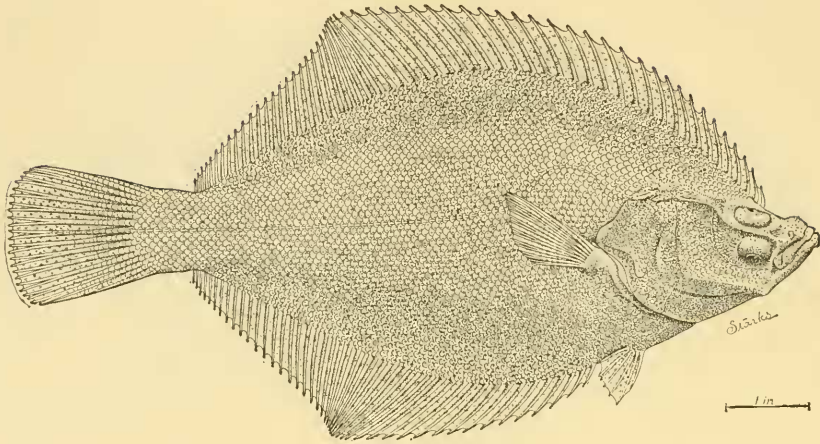


Fig. 276.

947. *Limanda aspera* (Pallas).

Ibo-garei.

Pleuronectes asper Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 425. East coast of Siberia.

Distrib.—Bering Sea ; Okhotsk Sea.

948. *Limanda proboscidea* Gilbert.

Hana-garei.

Limanda proboscidea Gilbert, Rept. U.S. Fish Comm. for 1893 (1896), p. 460, pl. XXXIII. Bristol Bay ; Herendeen Bay.

Distrib.—Bering Sea ; Okhotsk Sea.

Genus *Veræqua* Jordan & Starks.

Veræqua Jordan & Starks, Bull. U.S. Fish Comm., XX, 1904, p. 628.

Type *Veræqua achne* Jordan & Starks.

949. *Veræqua achne* Jordan & Starks. (Fig. 277).

Abuku-garei.

Veræqua achne Jordan & Starks, Bull. U.S. Fish Comm., XXII, 1904, p. 625, pl. VII, fig. 1. Matsushima Bay.

Distrib.—Matsushima Bay.

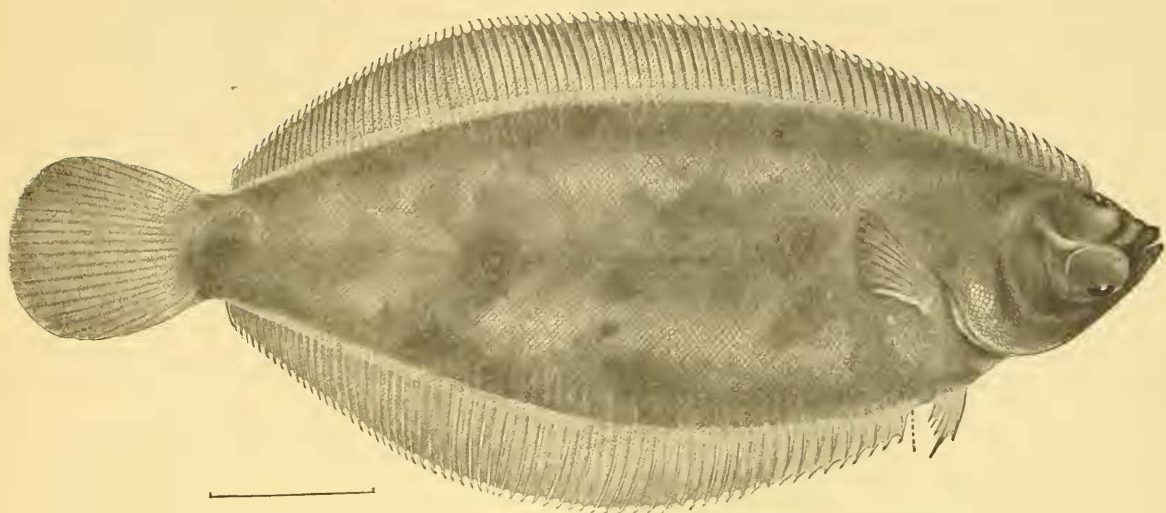


Fig. 277.

Genus *Platessa* Cuvier.

Platessa Cuvier, Règne Animal, 2nd ed., 1817, p. 220.

Type *Pleuronectes platessa* Linnaeus.

950. *Platessa quadrituberculata* (Pallas).

Tsuno-garei.

Pleuronectes quadrituberculatus Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 423. Sea between Kamchatka and Alaska.

Pleuronectes pallasii Steindachner, Ichth. Beitr., VIII, 1879, p. 45. Kamchatka.

Distrib.—Bering Sea ; Japan Sea ; south to southern Sighalien.

Genus *Liopsetta* Gill.

Liopsetta Gill, Proc. Ac. Nat. Sci. Phila., 1864, p. 217.

Type *Platessa glabra* Storer, not *Platessa glabra* Rathke.

951. *Liopsetta obscura* (Herzenstein).

Kuro-garei.

Pleuronectes obscurus Herzenstein, Mélanges Biologiques, 1890, p. 127. Chamulpo ; Vladivostok.

Distrib.—Okhotsk Sea, south to Kuril Islands.

952. *Liopsetta pinnifasciata* (Kner).

Suna-garei.

Pleuronectes pinnifasciatus Kner, in Steindachner, Ueber einige Pleuronectiden, etc., aus Decastris Bay, 1870, p. 422, pl. I, fig. 1. Decastris Bay, mouth of Amur River.

Distrib.—Japan Sea, from Amur River to Kamchatka.

Genus *Platichthys* Girard.

Platichthys Girard, Proc. Ac. Nat. Sci. Phila., 1854, p. 136.

Type *Platichthys rugosus* Girard = *Pleuronectes stellatus* Pallas.

953. *Platichthys stellatus* (Pallas). (Fig. 278).

Numa-garei ; Takanoha-garei (Prov. Mutsu).

Pleuronectes stellatus Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 416.
Kamchatka ; Aleutian ; Kuril Islands.

Distrib.—North Pacific on both coasts, south to Tōkyō and San Luis Obispo.

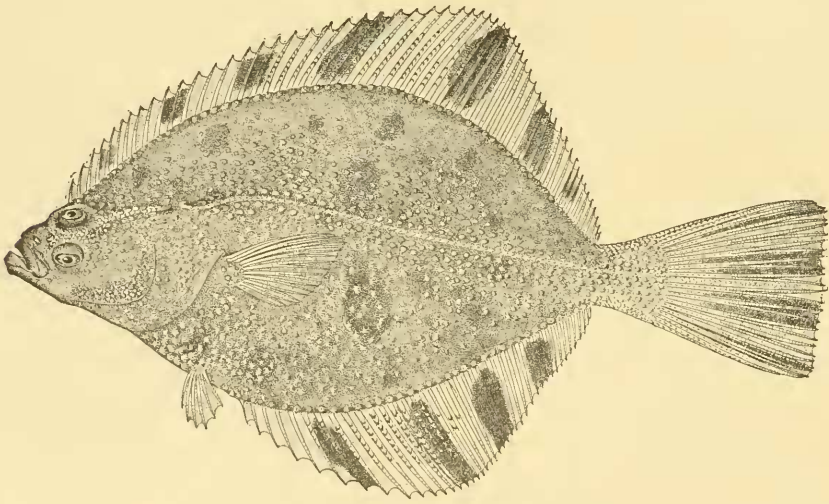


Fig. 278.

Genus *Kareius* Jordan & Snyder.

Kareius Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 379.

Type *Pleuronectes scutifer* Steindachner = *Platessa bicoloratus* Basilewsky.

954. *Kareius bicoloratus* (Basilewsky).

Ishigarei.

Platessa bicoloratus Basilewsky, Nom. Mém. Soc. Moscow, X, 1855, p. 260.
Shantung.

Pleuronectes scutifer Steindachner, Sitzber. Akad. Wiss. Wien, XXI, p. 628, pl. II. Chifu.

Distrib.—Northern Japan from Tōkyō to Otaru ; northern China.

Genus *Clidoderma* Bleeker.

Clidoderma Bleeker, Comptes Rendus, Amsterd., XIII, 1862.

Type *Platessa asperrima* Temminck & Schlegel.

955. *Clidoderma asperrimum* (Temminck & Schlegel). (Fig. 279).

Same-garei.

Platessa asperrima Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 177. Nagasaki.

Distrib.—Mororan to Nagasaki.

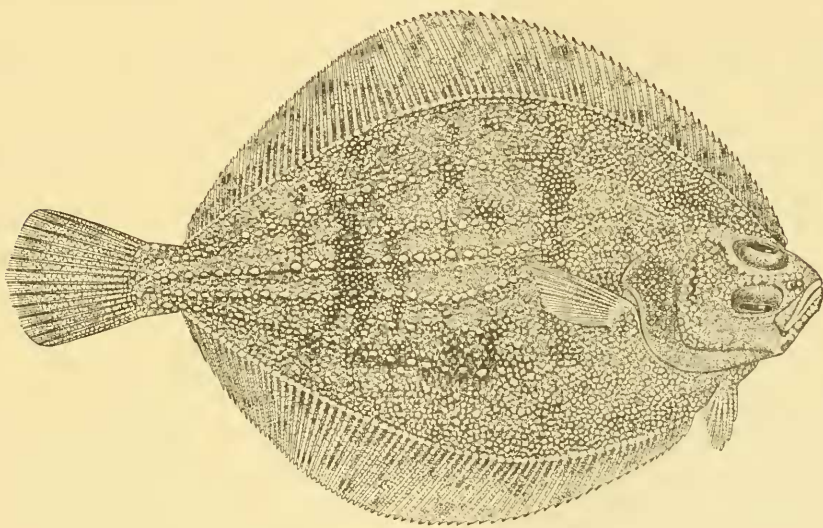


Fig. 279.

Genus *Microstomus* Gottsche.

Microstomus Gottsche, Archiv für Naturgesch., 1835, p. 150. (Not *Microstoma* Risso, 1826).

Type *Microstomus latidens* Gottsche.

956. *Microstomus stelleri* Schmidt. (Fig. 280).

Baba-garei.

Microstomus stelleri Schmidt, Pisc. Mar. Orient., 1904, p. 247. Mayka ; Gensan ; Shogun ; Lake Askold ; Shendogan ; Gulf of Broughton ; Gulf of Aneva.

Distrib.—Northern Japan (Hakodate ; Mororan ; Edomo) to Saghalien and Korea.

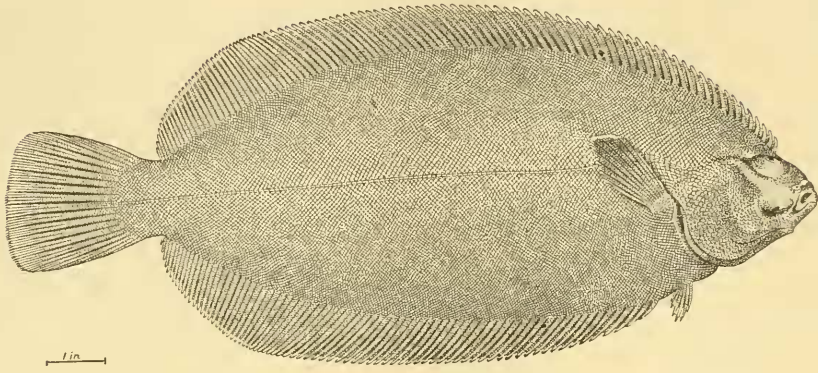


Fig. 280.

957. *Microstomus kitaharæ* Jordan & Starks.

Yanagi-mushi-garei.

; *Microstomus kitaharæ* Jordan & Starks, Bull. U. S. Fish Comm., XXII, 1904, p. 625, pl. VII, fig. 2. Matsushima Bay.

Distrib.—Suruga Bay ; Tōkyō ; Matsushima Bay ; Tsuruga.

Genus *Glyptocephalus* Gottsche.

Glyptocephalus Gottsche, Archiv. Natur., 1835, p. 156.

Type *Plcuronectes saxicola* Faber = *P. cynoglossus* Linnæus.

958. *Glyptocephalus sasæ* Snyder.

Isami-garei.

Geyptocephalus sasæ Snyder, Proc. U. S. Nat. Mus., XL, 1911, p. 548. Otaru.

Distrib.—Northern Japan.

Family **SOLEIDÆ.**

Genus *Amate* Jordan & Starks.

Amate Jordan & Starks, Proc. U. S. Nat. Mus., XXXI, 1906, p. 228.

Type *Achirus japonicus* Temminck & Schlegel.

959. *Amate japonica* (Temminck & Schlegel). (Fig. 281).

Sasa-ushinoshita.

Achirus japonicus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 186. Nagasaki.

Distrib.—Southern Japan ; ? East Indies.

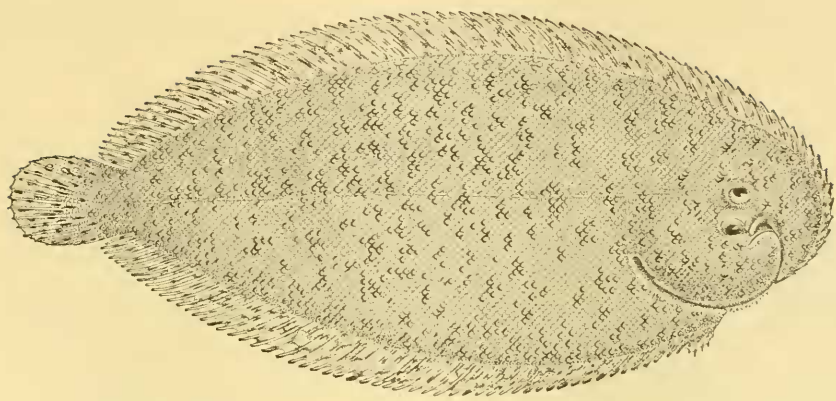


Fig. 281.

Genus *Aseraggodes* Kaup.*Aseraggodes* Kaup, Wiegmann's Archiv., 1858, p. 103.Type *Aseraggodes guttulatus* Kaup.960. *Aseraggodes kobensis* (Steindachner). (Fig. 282).

Tobi-sasa-ushinoshita.

Solea (Achirus) kobensis Steindachner, Reise Aurora, 1896, p. 218. Kōbe.

Distrib.—Nagasaki ; Kōbe.

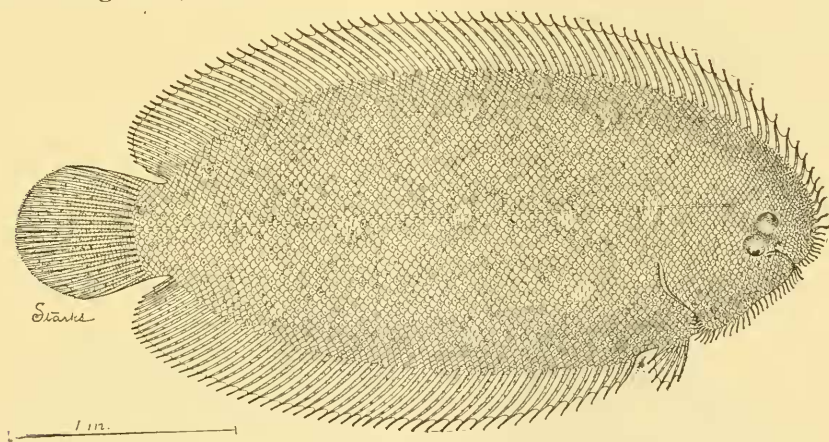


Fig. 282.

Genus *Liachirus* Günther.*Liachirus* Günther, Cat. Fish., IV, 1862, p. 479.Type *Liachirus nitidus* Günther.961. *Liachirus nitidus* Günther. (Fig. 283).

Garasu-ushinoshita.

Liachirus nitidus Günther, Cat. Fish., IV, 1862, p. 479. China.

Distrib.—Coast of China, north to Formosa and Shikoku (Susaki, Tosa).

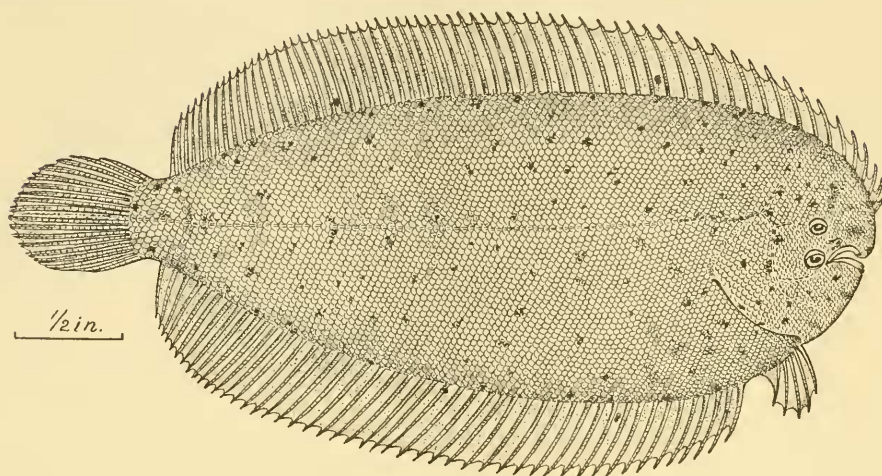


Fig. 283.

Genus *Zebrias* Jordan & Snyder.

Zebrias Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 380.

Type *Solea zebrina* Temminck & Schlegel.

962. *Zebrias zebrinus* (Temminck & Schlegel). (Fig. 284).

Tsurumaki (Misaki, Sagami); Shima-ushinoshita; Shima-garei; Tsurushita;
Shimashita; Shimasetta.

Solea zebrina Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 186, pl.
XCV, fig. 1. Nagasaki.

Solea ommatura Richardson, Ichth. China, 1846, p. 279. Canton.

Distrib.—Coasts of Japan, north to Hakodate, south to Formosa.

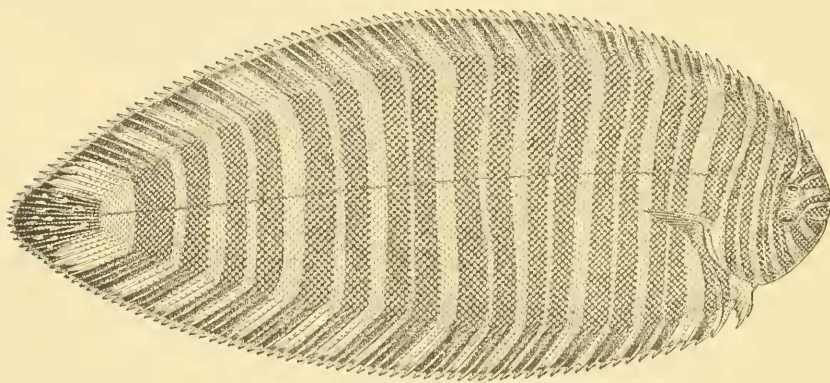


Fig. 284.

963. *Zebrias japonicus* (Bleeker).

Seto-ushinoshita.

Æsopia japonica Bleeker, Japan, VI, 1869, p. 71. Nagasaki.*Synaptura smithi* Regan, Ann. Mag. Nat. Hist., 1903, p. 57, pl. VI. Inland Sea of Japan.

Distrib.—Shores of southern Japan, north to Tōkyō.

Genus *Rhinoplagusia* Bleeker.*Rhinoplagusia* Bleeker, Atlas Ichth., VI, 1810, Pleuron., p. 27.*Usinostia* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 380.(*Plagusia japonica* Temminck & Schlegel).*Usinosta* Jordan & Snyder, Check List, 1901, p. 123 (*Plagusia japonica* Temminck & Schlegel; *Usinostia* and *Usinosta* both accidental misprints for *Usinosita*).*Usinosita* Jordan & Evermann, Proc. U. S. Nat. Mus., XXV, 1902, p. 366 (*Plagusia japonica* Temminck & Schlegel).Type *Plagusia japonica* Temminck & Schlegel.**964. *Rhinoplagusia japonica* (Temminck & Schlegel).**

Ushinoshita (Misaki, Sagami); Shita-birame; Ao-shita-birame.

? *Pleuronectes japonicus* Houttuyn, Holl. Mats. Weet. Haarlem, 1782, p. 311. Nagasaki.*Plagusia japonica* Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 187, pl. XCV, fig. 2. Nagasaki.

Distrib.—Coasts of Japan and Formosa, north to Aomori.

Genus *Symphurus* Rafinesque.*Symphurus* Rafinesque, Indice d' Ittiologia Siciliana, 1810, p. 52.Type *Symphurus nigrescens* Rafinesque.**965. *Symphurus orientalis* (Bleeker).**

Adsuma-garei.

Aphoristia orientalis Bleeker, Enum. Poiss. Connus du Japon, 1879, p. 31, pl. II, fig. 1. Japan.

Distrib.—Coasts of Japan, north to Vladivostok.

Genus *Cynoglossus* Buchanan-Hamilton.*Cynoglossus* Buchanan-Hamilton, Fishes of the Ganges, 1822, p. 32.Type *Cynoglossus lingua* Buchanan-Hamilton.**966. *Cynoglossus inusita* Jordan, Tanaka & Snyder, new species.**

Inu-no-shita.

Cynoglossus robustus Jordan & Starks, Proc. U. S. Nat. Mus., XXXI, 1907, p. 239. Tōkyō; Onomichi; Kōbe; Nagasaki. (Not of Günther).

Distrib.—Tōkyō ; Onomichi ; Kōbe ; Nagasaki.

967. *Cynoglossus brunneus* Regan.

Seto-inunoshita.

Cynoglossus brunneus Regan, Ann. Mag. Nat. Hist., 1905, p. 26. Inland Sea of Japan.

Distrib.—Inland Sea of Japan.

Genus *Areliscus* Jordan & Snyder.

Areliscus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 380.

Type *Cynoglossus joyneri* Günther.

968. *Areliscus joyneri* (Günther).

Aka-shitabirame ; Umano-shita ; Bero (Bay of Matsushima).

Cynoglossus joyneri Günther, Ann. Mag. Nat. Hist., 1878, p. 486 ; Tōkyō ; Shore Fishes Challenger, 1880, p. 7c, pl. XXX, fig. A. Tōkyō.

Distrib.—Tōkyō.

969. *Areliscus interruptus* (Günther).

Gencho.

Cynoglossus interruptus Günther, Shore Fishes Challenger, 1880, p. 70, pl. XXX, fig. B. Yokohama ; Swatow.

Distrib.—Nagasaki to Matsushima ; Swatow.

970. *Areliscus purpureomaculatus* (Regan).

Murasaki-garei.

Cynoglossus purpurcomaculatus Regan, Ann. Mag. Nat. Hist., 1905, p. 28. Inland Sea of Japan.

Distrib.—Inland Sea of Japan.

Genus *Æsopia* Kaup.

Æsopia Kaup, Wiegmann's Archiv., 1858, p. 95.

Type *Æsopia cornuta* Kaup.

971. *Æsopia cornuta* Kaup. (Fig. 285).

Tsuno-ushinoshita.

Æsopia cornuta Kaup, Wiegmann's Archiv., 1858, p. 95. British India.

Distrib.—India, north to Nagasaki.

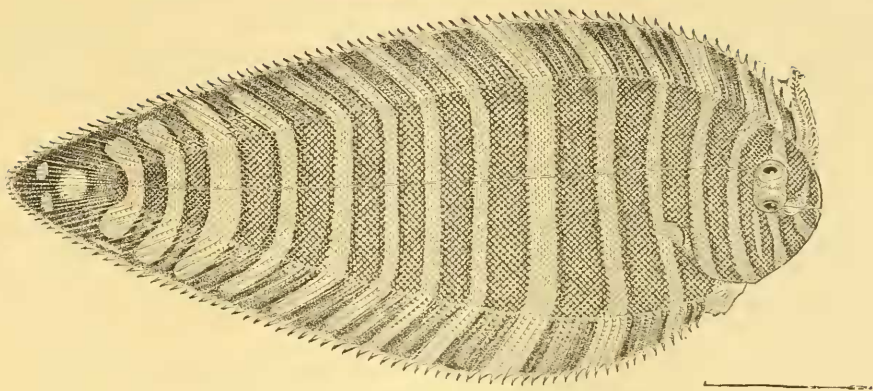


Fig. 285.

Genus *Trulla* Kaup.*Trulla* Kaup, Wiegman's Archiv., 1858, p. 109.Type *Trulla capensis* Kaup.**972. *Trulla itina* Snyder.**

Riukiu-ushinoshita.

Trulla itina Snyder, Proc. U. S. Nat. Mus., XXXVI, 1909, p. 609. Okinawa.

Distrib.—Riukiu Islands ; southern Japan ; Kagoshima.

Family ELEOTRIDÆ.**Genus *Vireosa* Jordan & Snyder.***Vireosa* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 38.Type *Vireosa hanæ* Jordan & Snyder.**973. *Vireosa hanæ* Jordan & Snyder. (Fig. 286).**

Hana-haze.

Vireosa hanæ Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 38,
fig. 1. Misaki, Sagami.

Distrib.—Misaki, Sagami.

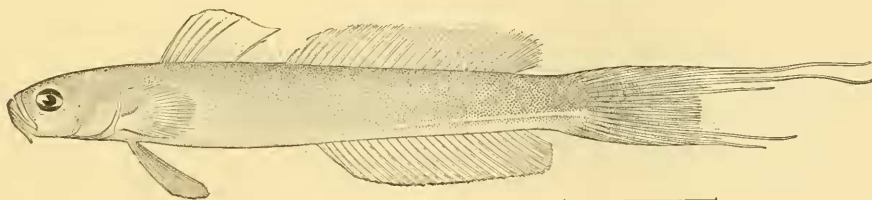


Fig. 286.

Genus *Eviota* Jenkins.

Eviota Jenkins, Bull. U. S. Fish Comm., XXII, 1902 (Sept. 23, 1903), p. 501.

Type *Eviota epiphanes* Jenkins.

974. *Eviota abax* (Jordan & Snyder). (Fig. 287).

Iso-haze.

Asterrepteryx abax Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 40, fig. 2. Misaki, Sagami.

Distrib.—Misaki, Sagami.

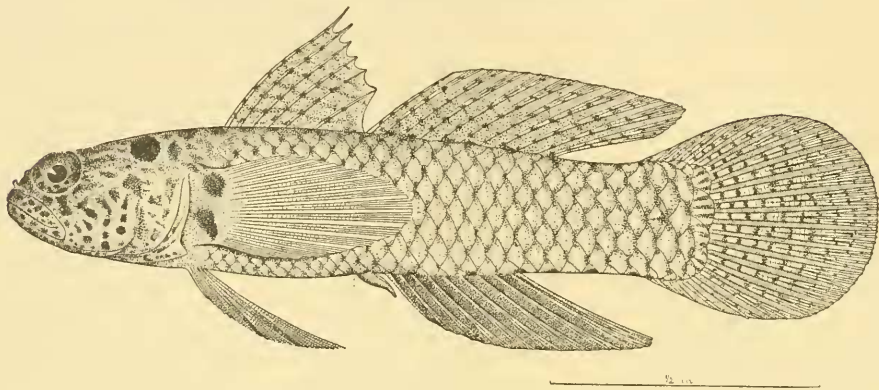


Fig. 287.

Genus *Eleotriodes* Bleeker.

Eleotriodes Bleeker, Naturk. Tijds. Nederl. Indie, XV, 1858, p. 212.

Type *Eleotriodes helsdingenii* Bleeker.

975. *Eleotriodes helsdingenii* Bleeker. (Fig. 288).

Kuro-ito-haze.

Eleotriodes helsdingenii Bleeker, Naturk. Tijd. Nederl. Indie, XV, 1858, p. 212. Sea of Goram.

Distrib.—Sea of Goram ; Urado, Kōchi.

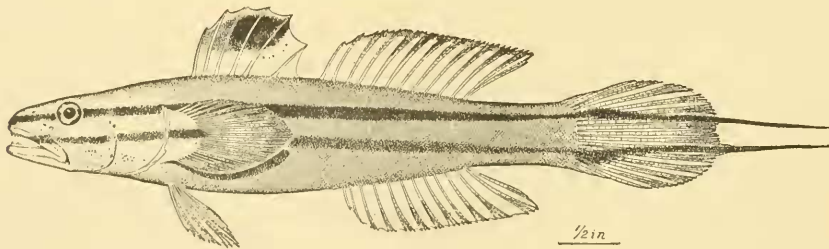


Fig. 288.

Genus *Hetereleotris* Bleeker.*Hetereleotris* Bleeker, Arch. Neerl., 1875, p. 306.Type *Gobius diadematus* Rüppell.**976. *Hetereleotris arenarius* Snyder.**

Isago-haze.

Hetereleotris arenarius Snyder, Proc. U. S. Nat. Mus., XXXV, 1908, p. 100.

Nafa, Okinawa.

Distrib.—Nafa ; Tanegashima.

Genus *Mogurnda* Gill.*Mogurnda* Gill, Proc. Acad. Nat. Sci. Phila., 1863, p. 270.Type *Eleotris mogurnda* Richardson.**977. *Mogurnda obscura* (Temminck & Schlegel).****Donko** (Prov. Iyo) ; **Donkō** (Ōita) ; **Guzu** (Kanazawa, Prov. Kaga) ; **Gōso** (Prov. Tosa) ; **Kawa-susuki**.*Eleotris obscura* Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 149, pl. LXXVII, figs. 1-3. Streams tributary to the bay of Nagasaki.

Distrib.—Tōkyō to Nagasaki ; Riukiu ; Chikiang, China.

Genus *Eleotris* (Gronow) Schneider.*Eleotris* Gronow, Zooph., 1763, p. 83. (Nonbinomial).*Eleotris* Schneider, Syst. Ichth., 1801, p. 65.Type *Gobius pisonis* Gmelin.**978. *Eleotris oxycephala* Temminck & Schlegel.****Doman** (Lake Biwa) ; **Anagō** (Tosa).*Eleotris oxycephala* Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 150, pl. LXXVII, figs. 4,5. Nagasaki.

Distrib.—Tōkyō to Nagasaki ; China.

Family GOBIIDÆ.**Genus *Apocryptes* Osbeck.***Apocryptes* Osbeck, Amoen Iter Chinensis, 1754, p. 29.Type *Apocryptes chinensis* Osbeck.**979. *Apocryptes chinensis* Osbeck.****Mutsugorō** (Yanagawa, Kiusiu).*Apocryptes chinensis* Osbeck, Amoen. Iter Chinensis, 1754, p. 29, fig. 23 ; Reise nach China, 1762, p. 130. Canton.

Distrib.—Yanagawa, Kiusiu ; China.

Genus *Periophthalmus* Schneider.*Periophthalmus* Schneider, Syst. Ichth., Bloch, 1801, p. 63.Type *Periophthalmus papilio* Bloch & Schneider.**980. *Periophthalmus cantonensis* (Osbeck).**

Tobi-haze (Tōkyō); Kattai-mutsu (Prov. Hizen).

Apocryptes cantonensis Osbeck, Iter Chinesis, 1757, p. 131; and in German edition, 1762 (Reise nach China). Canton.*Periophthalmus modestus* Canton, Ann. Mag. Nat. Hist., IX, 1842, p. 29. Chusan.

Distrib.—Shimōsa to Nagasaki; coasts of Korea and China.

Genus *Gnatholepis* Bleeker.*Gnatholepis* Bleeker, Esquisse Syst. Nat. Gobioid. in Arch. Néerl. Sc. Soc. Holl. Harlem, IX, 1874, p. 318.*Hazeus* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p. 51 (*Hazeus otakii* Jordan & Snyder).Type *Gobius anjerensis* Bleeker.**981. *Gnatholepis otakii* (Jordan & Snyder). (Fig. 289).**

Yukata-haze.

Hazeus otakii Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 51, fig. 3. Nagasaki.

Distrib.—Nagasaki.

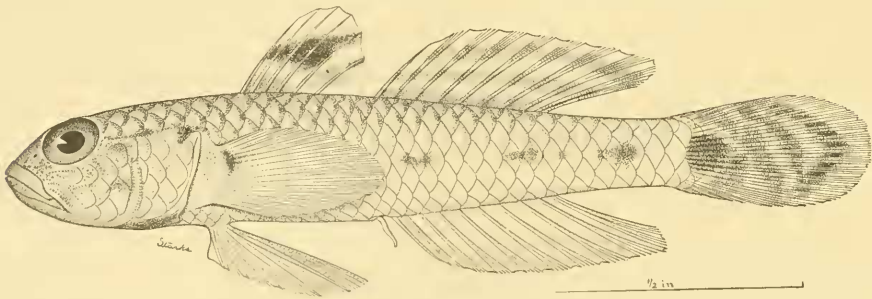


Fig. 289.

Genus *Rhinogobius* Gill.? *Ctenogobius* Gill, Fish Trinidad, Ann. Lyc. Nat. Hist. N. Y., 1858, p. 374. (*Ctenogobius fasciatus* Gill). (Tongue notched).*Rhinogobius* Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 145. (Tongue rounded).Type *Rhinogobius similis* Gill.

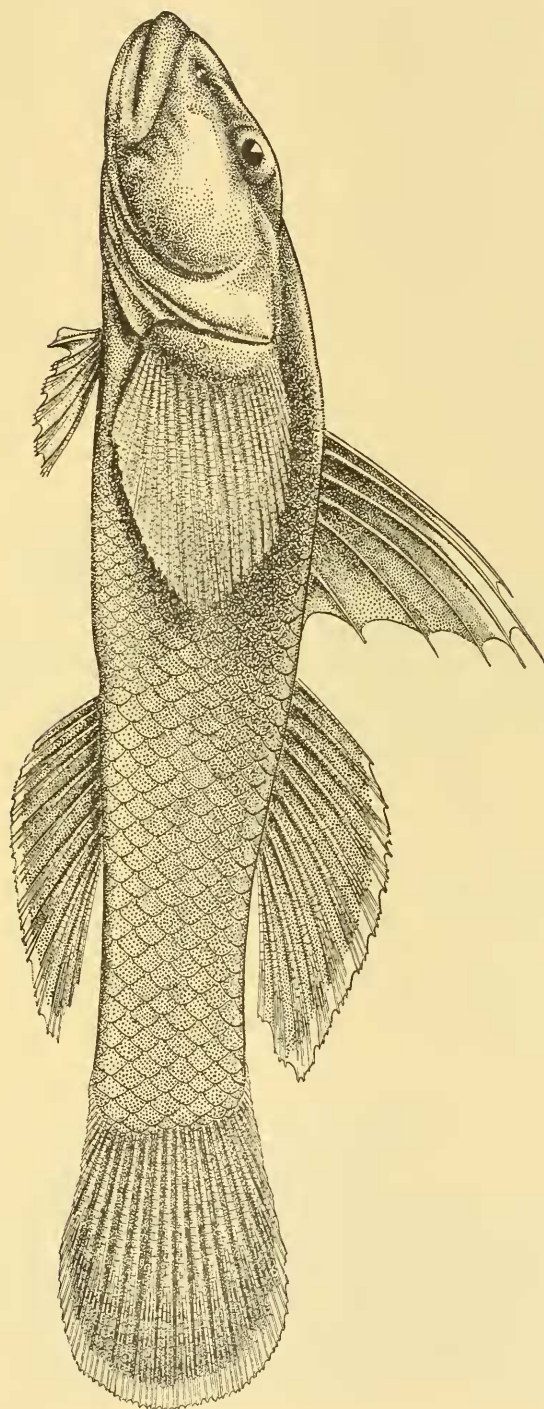


Fig. 29c.

982. *Rhinogobius similis* Gill. (Fig. 290).

Yoshinobori, Yona, Yonappe, Yaaranbō, or Suitsuki (Prov. Shinano).

Rhinogobius similis Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 145. Near Shimoda, Prov. Idzu.

Gobius yokohamæ Günther, Ann. Mag. Nat. Hist., 1877, p. 437. Yokohama. Distrib.—Shinano ; Yokohama ; Shimoda, Idzu ; Lake Biwa ; Nagasaki.

983. *Rhinogobius gymnauchen* (Bleeker). (Fig. 291).

Hime-haze.

Gobius gymnauchen Bleeker, Act. Soc. Sci. Indo- Nedeerl., Japan, VI, p. 84, pl. I, fig. 2. Tōkyō.

Distrib.—Misaki, Sagami to Nagasaki.

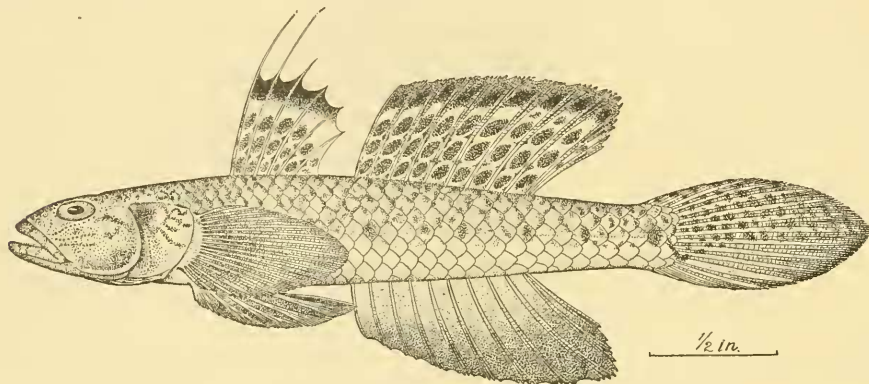


Fig. 291.

984. *Rhinogobius nagoyæ* Jordan & Seale. (Fig. 292).

Nagoya-haze.

Rhinogobius nagoyæ Jordan & Seale, Proc. U. S. Nat. Mus., XXX, 1906, p. 147 fig. 5. Nagoya.

Distrib.—Nagoya.

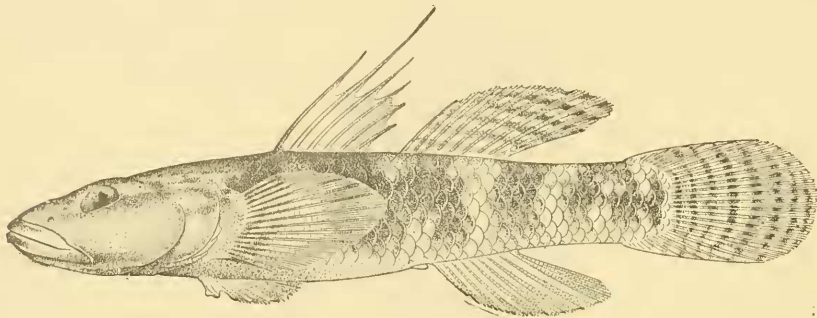


Fig. 292.

985. *Rhinogobius macropteryx* (Franz).

Hirenaga-haze.

Ctenogobius macropteryx Franz, Abh. Bayer. Akad., 1910, p. 67, taf. VI, fig. 45. Dzushi.

Distrib.—Dzushi.

986. *Rhinogobius hadropterus* (Jordan & Snyder). (Fig. 293).

Gokuraku-haze.

Ctenogobius hadropterus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 60, fig. 7. Nagasaki.

Distrib.—Nagasaki ; Kumamoto ; Riukiu.

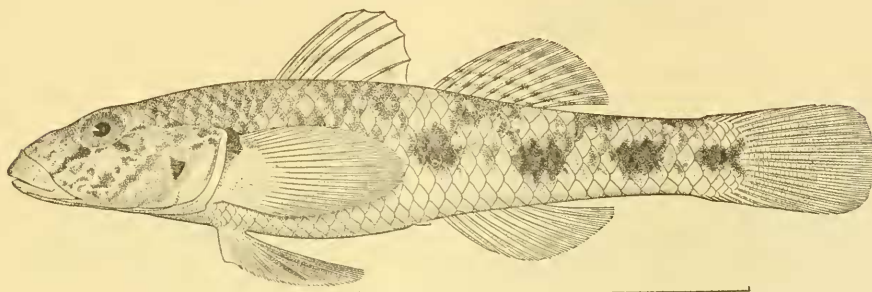


Fig. 293.

987. *Rhinogobius campbelli* (Jordan & Snyder). (Fig. 294).

Kutsuwa-haze.

Ctenogobius campbelli Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 62, fig. 8. Wakanoura.

Distrib.—Wakanoura.

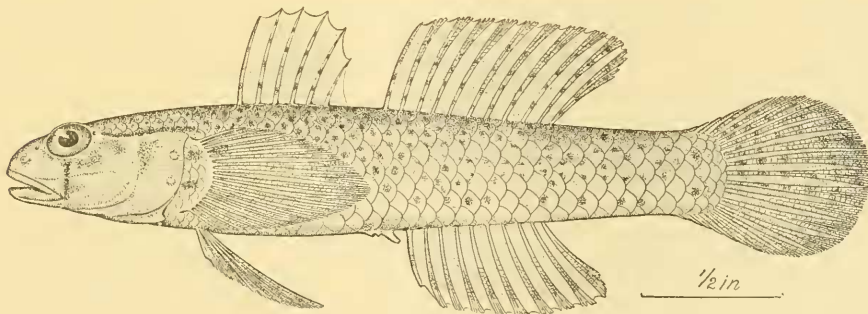


Fig. 294.

988. *Rhinogobius virgatulus* (Jordan & Snyder). (Fig. 295).

Suji-haze.

Ctenogobius virgatulus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 63, fig. 9. Misaki, Sagami.

Distrib.—Matsushima to Nagasaki ; Fusan ; Gensan, Korea.

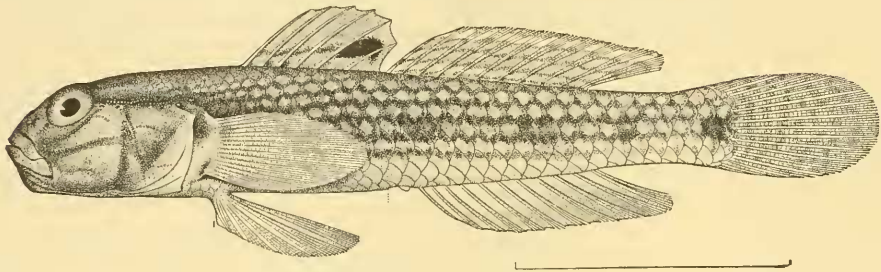


Fig. 295.

989. *Rhinogobius pflaumi* (Bleeker).

Moyō-haze.

Gobius pflaumi Bleeker, Verh. Bat. Gen., XXV, Japan, p. 42, figs. 3, 18. Nagasaki.

Distrib.—Aomori to Kawatana, Kiusiu.

990. *Rhinogobius atriceps* (Regan).

Kokutō-haze.

Gobius (Ctenogobius) atriceps Regan, Ann. Mag. Nat. Hist., 1905, p. 364. Inland Sea of Japan.

Distrib.—Inland Sea of Japan.

991. *Rhinogobius kurodai* (Tanaka).

Kuroda-haze.

Ctenogobius kurodai Tanaka, Ann. Zool. Jap., VII, pt. I, 1908, p. 32. Tōkyō.

Distrib.—Tōkyō.

992. *Rhinogobius katonis* (Tanaka).

Kin-kan (Kanazawa, Kaga).

Ctenogobius katonis Tanaka, Ann. Zool. Jap., VII, pt. I, 1908, p. 35. Kanazawa, Kaga.

Distrib.—Kanazawa, Kaga.

Genus *Mugilogobius* Smitt.

Mugilogobius Smitt, Ofv. Ak. Forh., 1899, p. 552. (No species named).

Vaimosa Jordan & Seale, Fishes Samoa, 1906, p. 395 (*Vaimosa fontinalis* Jordan & Seale).

Type *Ctenogobius abei* Jordan & Snyder (assigned by Jordan from Schmidt Ms.).

993. *Mugilogobius abei* (Jordan & Snyder). (Fig. 296).

Abe-haze.

Ctenogobius abei Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 55, fig. 5. Wakanoura, Kii.

Distrib.—Wakanoura.

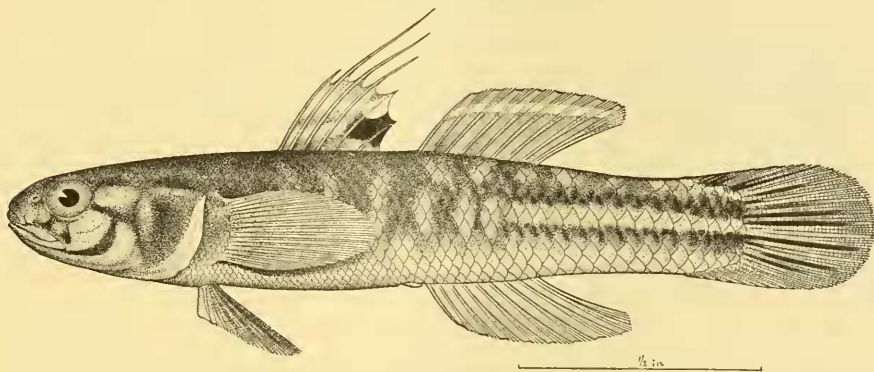


Fig. 296.

Genus *Gobius* Linnæus.

Gobius Linnæus, Syst. Nat., 10th ed., 1758, p. 262.

Type *Gobius niger* Linnæus.

994. *Gobius ornatus* Rüppell.

Kazari-haze.

Gobius ornatus Rüppell, Atl. Fische, 1828, p. 135. Red Sea.

Distrib.—South Seas ; East Indies ; Philippines ; Tanegashima (Snyder).

Genus *Awaous* Steindachner.

Les Awaous Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 1837, p. 95. (*ocellaris*, etc.).

Awaous Steindachner, Verh. Mat. Phys. Naturw., 1860, p. 289.

Type *Gobius ocellaris* Broussonnet.

995. *Awaous genivittatus* (Cuvier & Valenciennes).

Tane-kawa-haze.

Gobius genivittatus Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 1837, p. 64.
Tahiti.

Distrib.—South Seas ; Tanegashima (Snyder).

Genus *Mapo* Smitt.*Mapo* Smitt, Afh. Vet. Kong. Ak. Stockholm, 1899, p. 543.Type *Gobius soporator* Cuvier & Valenciennes.996. *Mapo crassiceps* Jordan & Seale.

Yahazu-haze.

Mapo crassiceps Jordan & Seale, Bull. U. S. Bureau Fish., XXV, 1906, p. 403,
fig. 92. Samoa.

Distrib.—Samoa ; Tanegashima (Snyder).

997. *Mapo fuscus* (Rüppell).

Kuro-yahazu-haze.

Gobius fuscus Rüppell, Atl. Fische, 1828, p. 137. Red Sea.

Distrib.—Atlantic and Pacific Oceans ; Tanegashima (Snyder).

998. *Mapo pœcilichthys* (Jordan & Snyder). (Fig. 297).

Kumo-haze.

Gobius pœcilichthys Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p.
52, fig. 4. Misaki, Sagami.

Distrib.—Misaki, Sagami.

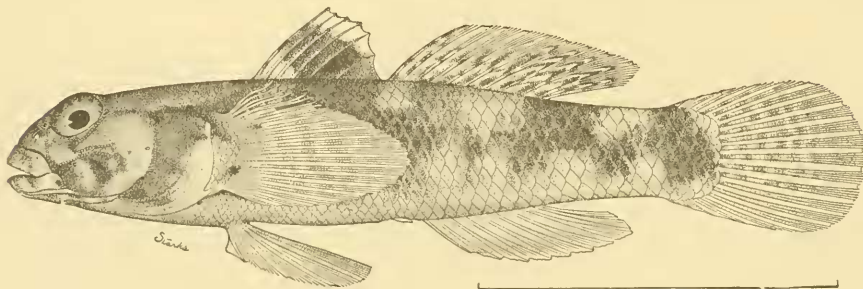


Fig. 297.

Genus *Aboma* Jordan & Starks.*Aboma* Jordan & Starks, Proc. Cal. Ac. Sci., 1895, p. 497.Type *Aboma ethcostoma* Jordan & Starks.999. *Aboma lactipes* (Hilgendorf). (Fig. 298).

Ashi-shiro-haze.

Gobius lactipes Hilgendorf, Sitzber. Naturf. Freunde, 1878, p. 109. Tōkyō.

Distrib.—Aomori to Enoshima; Tsuruga.

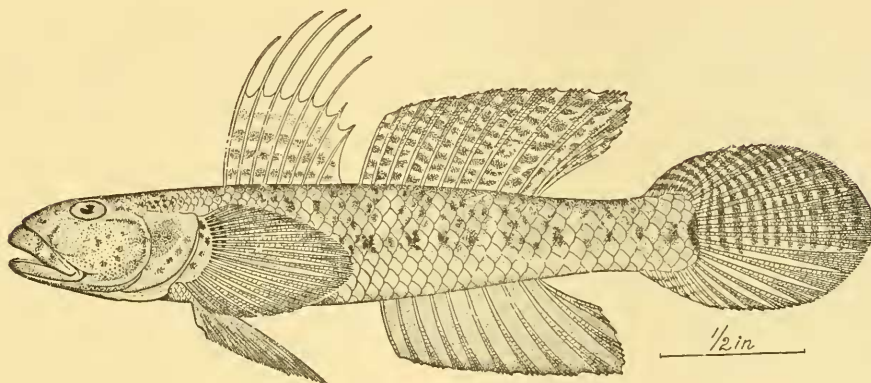


Fig. 298.

1000. *Aboma tsushimæ* Jordan & Snyder. (Fig. 299).

Tsushima-haze.

Aboma tsushimæ Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 759. Sasuna, Tsushima, Japan.

Distrib.—Sasuna, Tsushima.

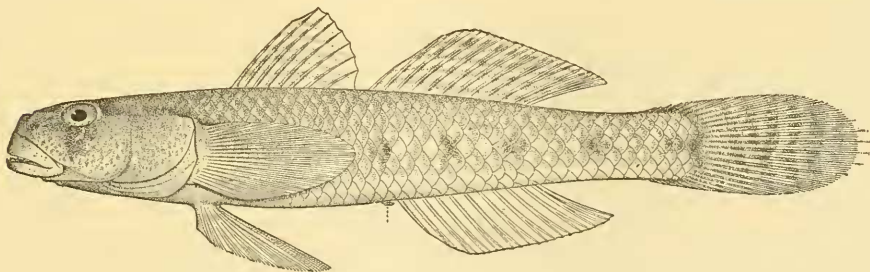


Fig. 299.

1001. *Aboma heptacantha* (Hilgendorf).

Ibara-haze.

Gobius heptacanthus Hilgendorf, Sitzber. Natur. Freunde, 1878, p. 110. Tōkyō.

Distrib.—Bay of Tōkyō.

1002. *Aboma breunigi* (Steindachner).

Ichimonzi-haza.

Gobius breunigi Steindachner, Ichth. Beitr., VIII, 1879, p. 22. Hakodate.

Distrib.—Hakodate.

1003. *Aboma urotænia* (Hilgendorf).

Himo-haze.

Gobius urotænia Hilgendorf, Sitzber. Nat. Freunde, Berlin, 1878, p. 108.
Tōkyō.

Distrib.—Tōkyō.

1004. *Aboma snyderi* Jordan & Fowler. (Fig. 300).

Usu-ami-haze.

Aboma snyderi Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1902, p. 575,
fig. Aomori.

Distrib.—Aomori.

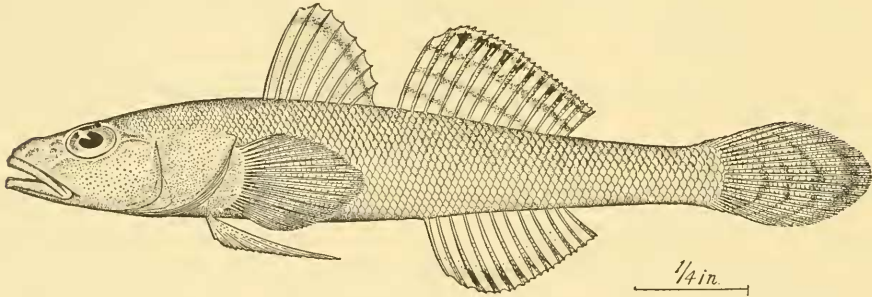


Fig. 300.

Genus *Zonogobius* Bleeker.*Zonogobius* Bleeker, Arch. Néerl., 1875, p. 323.Type *Zonogobius semifasciatus* Bleeker.**1005. *Zonogobius semidoliatus* (Cuvier & Valenciennes).**

Irezumi-haze.

Gobius semidoliatus Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 1837, p.
67. Vanicolo.

Distrib.—Red Sea ; East Indies ; Samoa ; Negros ; Tanegashima (Snyder).

1006. *Zonogobius boreus* Snyder.

Misaki-suji-haze.

Zonogobius boreus Snyder, Proc. U. S. Nat. Mus., XXXVI, 1908, p. 605.

Misaki, Sagami.

Distrib.—Misaki, Sagami.

Genus *Cryptocentrus* Ehrenberg.*Cryptocentrus* (Ehrenberg Ms.) Bleeker, Arch. Néerl., IX, 1874, p. 322.Type *Gobius cryptocentrus* Cuvier & Valenciennes.**1007. *Cryptocentrus filifer* (Cuvier & Valenciennes). (Fig. 301).**

Ito-hiki-haze.

Gobius filifer Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 1837, p. 106.

"Mer des Indes."

Distrib.—Japan, Tōkyō to Nagasaki ; Tsuruga ; China.

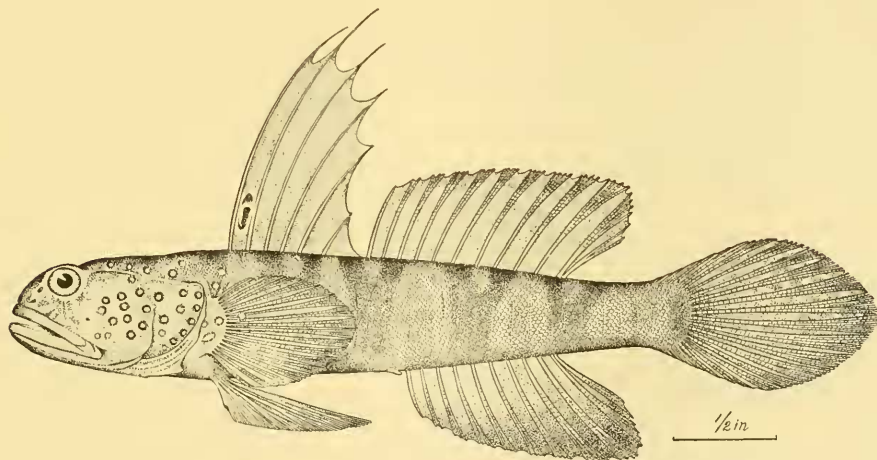


Fig. 301.

Genus *Amblygobius* Bleeker.*Amblygobius* Bleeker, Esquisse d'un Syst. Nat. Gobioid., 1874, p. 322.Type *Gobius sphinx* Cuvier & Valenciennes.**1008. *Amblygobius naraharæ* Snyder.**

Narahara-haze.

Amblygobius naraharæ Snyder, Proc. U. S. Nat. Mus., XXXV, 1908, p. 101.

Naha, Okinawa.

Distrib.—Okinawa ; Tanegashima.

Genus *Doryptena* Snyder.*Doryptena* Snyder, Proc. U. S. Nat. Mus., XXXV, 1908, p. 102.Type *Doryptena okinawæ* Snyder.**1009. *Doryptena tanegasimæ* Snyder.**

Tane-haze.

Doryptena tanegashimæ Snyder, Proc. U. S. Nat. Mus., XXXV, 1908, p. 104.

Tanegashima.

Distrib.—Tanegashima ; Akune, Satsuma.

Genus *Glossogobius* Gill.*Glossogobius* Gill, Ann. N. Y. Lyc. N. H., VII, 1859, p. 46.Type *Gobius platycephalus* Richardson.**1010. *Glossogobius brunneus* (Temminck & Schlegel).**

Uro-haze (Prov. Tango).

Gobius brunneus Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 142, pl. LXXIV, fig. 2. Nagasaki.*Gobius olivaceus* Temminck & Schlegel, l. c., p. 143, pl. LXXIV, fig. 3. Nagasaki. (On a drawing by Bürger).

Distrib.—Hakodate to Nagasaki.

Genus *Chænogobius* Gill.*Chænogobius* Gill, Ann. Lyc. Nat. Hist. N. Y., 1859, p. 12.*Gymnogobius* Gill, Proc. Ac. Nat. Sci. Phila., 1863, p. 269 (*Gobius macrognathos* Bleeker. Based on specimens wrongly described as scaleless).Type *Chænogobius annularis* Gill.**1011. *Chænogobius annularis* Gill.**

Yubiwa-haze.

Chænogobius annularis Gill, Ann. Lyc. Nat. Hist. N. Y., 1859, p. 12. Hakodate.

Distrib.—Hakodate.

1012. *Chænogobius macrognathos* (Bleeker). (Fig. 302).

Ukigori, Shima-gori, or Ōbagori (Kanazawa, Kaga); Goro (Ōarai, Prov. Shimōsa).

Gobius macrognathos Bleeker, Act. Soc. Sci. Indo-Néerl., VI, Japan, p. 83, pl. I, fig. 1. Rivers of Jeddo (Tōkyō).

Distrib.—Chitose, Hokkaidō to Kawatana, Prov. Hizen ; Chipesani ; Lososei Bay ; Lake Busse, Saghalien.

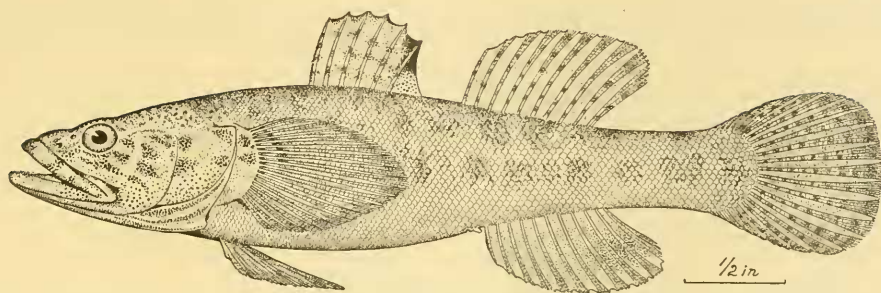


Fig. 302.

Genus *Chloea* Jordan & Snyder.*Chloea* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 78.Type *Gobius castaneus* O'Shaughnessy.1013. *Chloea castanea* (O'Shaughnessy).

Kuri-haze.

Gobius castaneus O'Shaughnessy, Ann. Mag. Nat. Hist., XV, 1875, p. 145.
Nagasaki.

Distrib.—Aomori to Nagasaki; Niigata; Tsuruga.

1014. *Chloea aino* Schmidt.

Uguisu-haze.

Chloea aino Schmidt, Pisc. Mar. Orient., 1904, p. 207. Arakul R.; L. Tunaichi.
Distrib.—Arakul R.; L. Tunaichi.1015. *Chloea lævis* (Steindachner).

Shikaku-haze.

Gobius lævis Steindachner, Ichth. Beitr., VIII, 1879, p. 20. Hakodate.
Distrib.—Hakodate.1016. *Chloea mororana* Jordan & Snyder. (Fig. 303).

Hebi-haze.

Chloea mororana Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 80,
fig. 14. Mororan, Hokkaidō.

Distrib.—Mororan, Hokkaidō to Tōkyō.

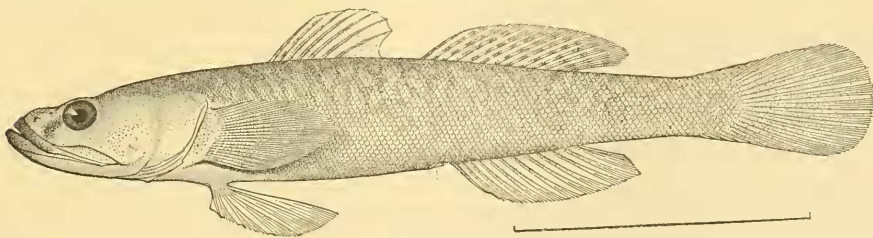


Fig. 303.

1017. *Chloea sarchynnus* Jordan & Snyder. (Fig. 304).

Niku-haze.

Chloea sarchynnus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 82, fig. 15. Wakanoura.

Distrib.—Wakanoura ; Niigata.

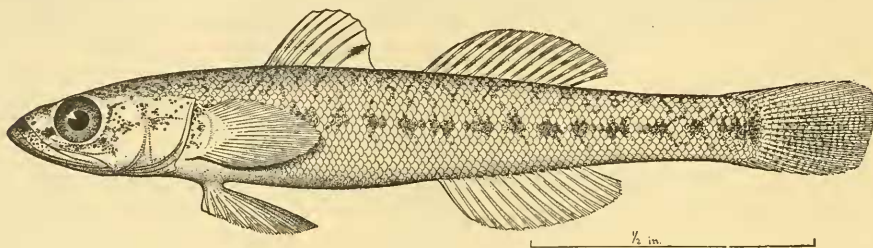


Fig. 304.

1018. *Chloea nakamuræ* Jordan & Richardson. (Fig. 305).

Koshi-no-haze.

Chloea nakamuræ Jordan & Richardson, Proc. U. S. Nat. Mus., XXXIII, 1907, p. 265, fig. 3. Nagaoka, Echigo.

Distrib.—Nagaoka, Echigo.

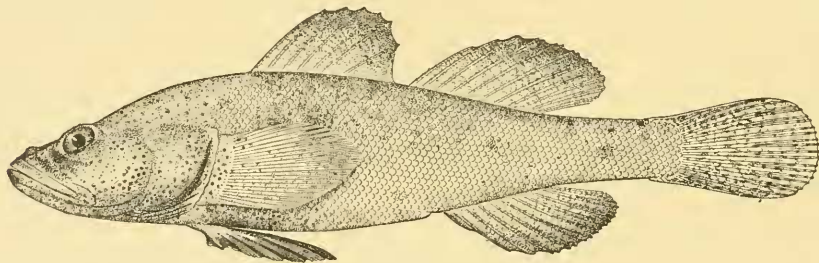


Fig. 305.

Genus *Chasmichthys* Jordan.*Saccostoma* (Guichenot Ms.) Sauvage, Bull. Soc. Philom., VI, 1882, p. 171 (*Saccostoma gulosum* Guichenot. The generic name *Saccostoma* preoccupied).*Chasmias* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 761 (*Chasmias misakius* Jordan & Snyder. The generic name *Chasmias* preoccupied).*Chasmichthys* Jordan, Proc. U. S. Nat. Mus., XXVI, 1903, p. 696.Type *Saccostoma gulosum* Guichenot.

1019. Chasmichthys dolichognathus (Hilgendorf). (Fig. 306).

Ago-haze.

Gobius dolichognathus Hilgendorf, Sitzber. Naturf. Freunde, 1878, p. 108.
Tōkyō.

Distrib.—Hakodate to Nagasaki.

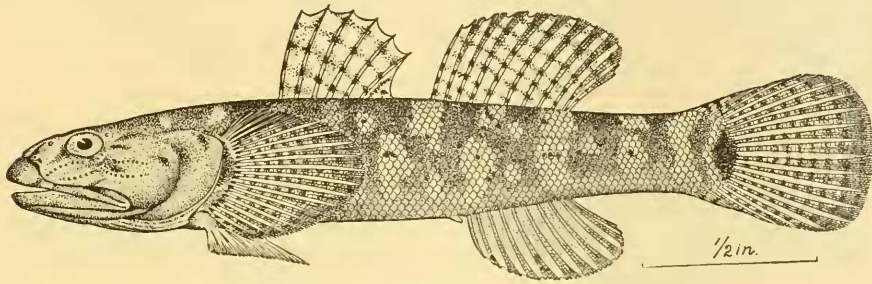


Fig. 306.

1020. Chasmichthys gulosus (Guichenot).

Dorome (Misaki, Sagami).

Saccostoma gulosum Guichenot Ms. in Sauvage, Bull. Soc. Philom., VI, 1882,
p. 171. Japan.

Chasmias misakius Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901,
p. 761, pl. XXXVI. Misaki, Sagami.

Distrib.—Hakodate to Nagasaki.

Genus Pterogobius Gill.

Pterogobius Gill, Proc. Ac. Nat. Sci. Phila., 1863, p. 266.

Type *Gobius virgo* Temminck & Schlegel.

1021. Pterogobius virgo (Temminck & Schlegel).

Nishiki-haze.

Gobius virgo Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 143, pl.
LXXIV, fig. 4. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

1022. Pterogobius elapoides (Günther).

Nizi-kinobaru.

Gobius elapoides Günther, Proc. Zool. Soc. Lond., 1871, p. 665, pl. LXIII, fig.
D. Locality unknown, supposed to be from Japan.

Distrib.—Aomori ; Hakodate ; Matsushima ; Ushitsu, Noto ; Nagasaki ; Kumamoto ; Fusan, Korea.

1023. *Pterogobius daimio* Jordan & Snyder. (Fig. 307).

Kinobaru (Misaki, Sagami); Kinubari.

Pterogobius daimio Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 91, fig. 17. Misaki, Sagami.

Distrib.—Misaki, Sagami; Wakanoura.

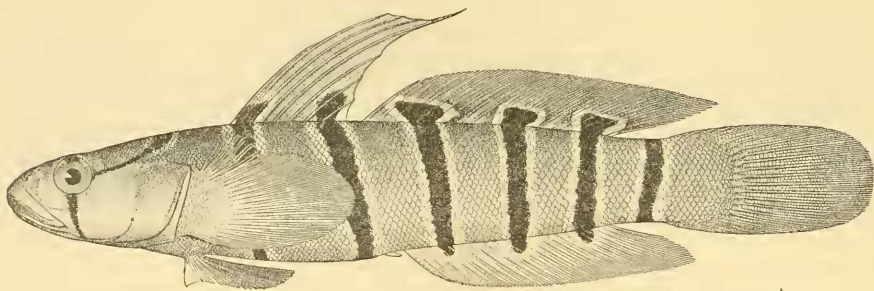


Fig. 307.

1024. *Pterogobius zacallas* Jordan & Snyder. (Fig. 308).

Riuguu-haze.

Pterogobius zacalles Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 93, fig. 18. Jōgashima, Misaki, Sagami.

Distrib.—Misaki, Sagami.

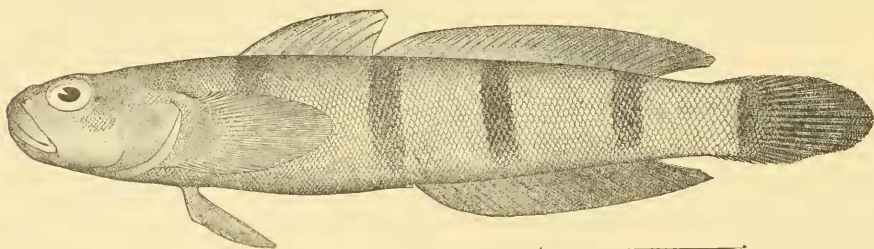


Fig. 308.

1025. *Pterogobius zonoleucus* Jordan & Snyder. (Fig. 309).

Shiro-suji-haze.

Pterogobius zonoleucus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 94, fig. 19. Misaki, Sagami.

Distrib.—Misaki, Sagami.

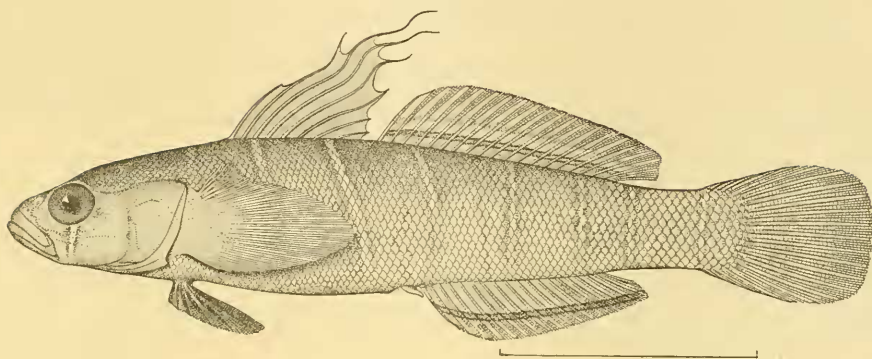


Fig. 309.

Genus *Suruga* Jordan & Snyder.

Suruga Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 96.

Type *Suruga fundicola* Jordan & Snyder.

1026. *Suruga fundicola* Jordan & Snyder. (Fig. 310).

Yami-haze.

Suruga fundicola Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 96,
fig. 20. Off Sagami.

Distrib.—Owari Bay to Matsushima.

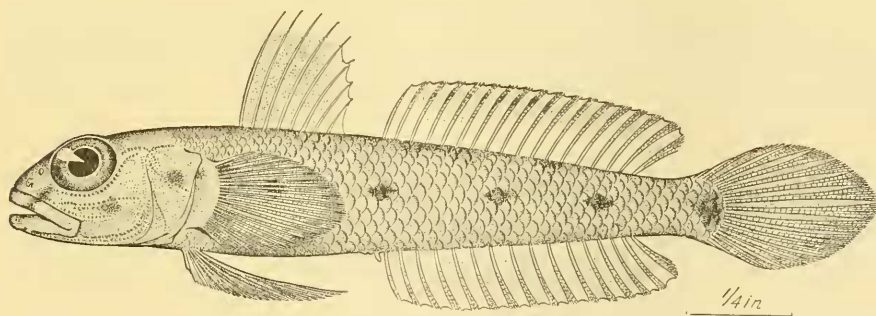


Fig. 310.

Genus *Acanthogobius* Gill.

Acanthogobius Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 145.

Synechogobius Gill, Proc. Ac. Nat. Sci. Phila., 1863, p. 266 (*Gobius hasta*
Temminck & Schlegel).

Type *Gobius flavimanus* Temminck & Schlegel.

1027. *Acanthogobius flavimanus* (Temminck & Schlegel).

Ma-haze.

Gobius flavimauns Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 141, pl. LXXIV, fig. 1. Nagasaki.

Distrib.—Hakodate to Nagasaki.

1028. *Acanthogobius hasta* (Temminck & Schlegel).

Ugui-haze

Gobius hasta Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 144, pl. LXXV, fig. 1. Nagasaki.

Distrib.—Nagasaki.

Genus *Sagamia* Jordan & Snyder.*Sagamia* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 100.Type *Sagamia russula* Jordan & Snyder.1029. *Sagamia russula* Jordan & Snyder. (Fig. 311).

Sabi-haze.

Sagamia russula Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 100, fig. 21. Misaki, Sagami.

Distrib.—Misaki, Sagami to Nagasaki.

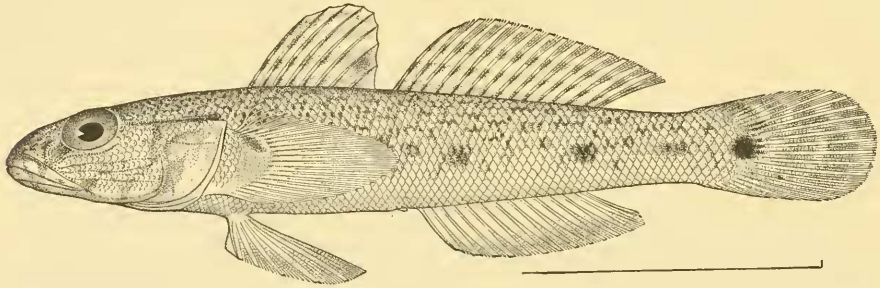


Fig. 311.

Genus *Parachæturichthys* Bleeker.*Parachæturichthys* Bleeker, Archives Néerl., 1874, p. 325.Type *Parachæturichthys polynema* Bleeker.1030. *Parachæturichthys polynemus* Bleeker.

Hige-haze.

Parachæturichthys polynema Bleeker, Verh. Batav. Genoots., XXV, Japan, p. 44, fig. 4. Nagasaki.

Distrib.—Wakanoura to Nagasaki ; Tsuruga ; China ; Madras.

Genus *Chæturichthys* Richardson.

Chæturichthys Richardson, Voyage Sulphur, 1844, p. 55.

Amblychæturichthys Bleeker, Archives Néerl., 1874, p. 324 (*Chæturichthys hexanema* Bleeker).

Type *Chæturichthys stigmatias* Richardson.

1031. *Chæturichthys stigmatias* Richardson.

Yaki-in-haze.

Chæturichthys stigmatias Richardson, Voy. Sulphur, 1844, p. 55. Locality uncertain.

Distrib.—Sasuna, Tsushima, Japan ; ? China.

1032. *Chæturichthys hexanemus* Bleeker.

Dainan-haze.

Chæturichthys hexanema Bleeker, Verh. Batav. Genootsch., XXV, Japar, p. 435. Nagasaki.

Distrib.—Mororan to Nagasaki.

1033. *Chæturichthys sciistius* Jordan & Snyder. (Fig. 312).

Hokake-haze.

Chæturichthys sciistius Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 107, fig. 22. Hakodate.

Distrib.—Mororan to Owari Bay ; Tsuruga ; Toyama Bay.

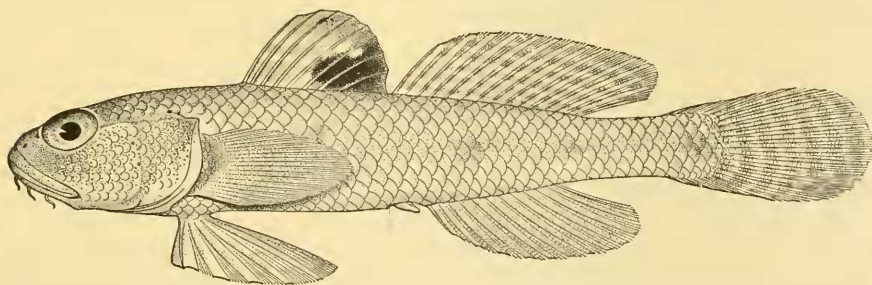


Fig. 312.

Genus *Ainosus* Jordan & Snyder.

Ainosus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 109.

Type *Gobius gencionema* Hilgendorf.

1034. *Ainosus geneionemus* (Hilgendorf).

Aino-haze.

Gobius geneionema Hilgendorf, Sitzgber. Naturf. Freunde, 1879, p. 108. Bay of Tōkyō.

Distrib.—Misaki, Sagami.

Genus *Triænopogon* Bleeker.*Triænopogon* Bleeker, Archives Néerl., 1874, p. 24.Type *Triænophorichthys barbatus* Günther.1035. *Triænopogon barbatus* (Günther). (Fig. 313).

Shōki-haze.

[*Triænophorichthys barbatus* Günther, Cat. Fish., VII, 1861. Locality unknown, "probably from China."

Distrib.—Tōkyō.

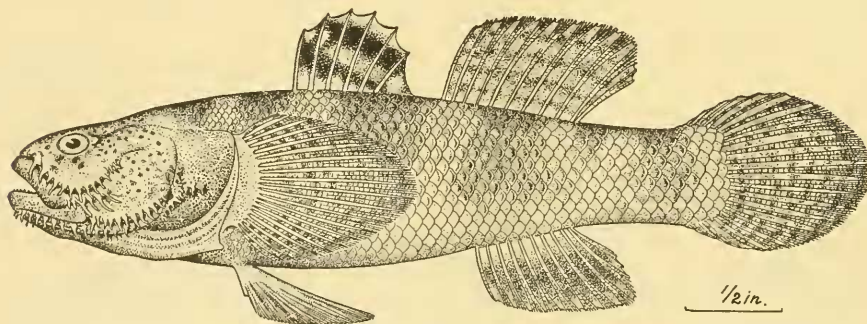


Fig. 313.

Genus *Sicydium* Cuvier & Valenciennes.*Sicydium* Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 1837, p. 168.Type *Gobius plumieri* Bloch.1036. *Sicydium japonicum* Tanaka.

Bōzu-haze.

Sicydium japonicum Tanaka, Journ. Coll. Sci. Imp. Univ. Tokyo, XXVII, Art. 8, Oct. 10, 1909, p. 22. Tosa.

Distrib.—Tosa ; Kii ; Kinokawa, Kii.

Genus *Tridentiger* Gill.*Tridentiger* Gill, Ann. Lyc. Nat. Hist. N.Y., Dec. 1858.*Trifissus* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 373

(*Trifissus ioturus* Jordan & Snyder).

Type *Sicydium obscurum* Temminck & Schlegel.

1037. *Tridentiger obscurus* (Temminck & Schlegel).

Chichibu (Tosa); Tora-haze.

Sicydium obscurum Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 145, pl. LXXVI, fig. 1. Nagasaki.

Triænophorichthys squamistrigatus Hilgendorf, Sitzber. Naturf. Freunde, 1879, III. Tōkyō.

Distrib.—Aomori to Nagasaki.

1038. *Tridentiger bucco* Jordan & Snyder. (Fig. 314).

Saru-haze.

Tridentiger bucco Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 115, fig. 24. Misaki, Sagami.

Distrib.—Misaki, Sagami; Tōkyō.

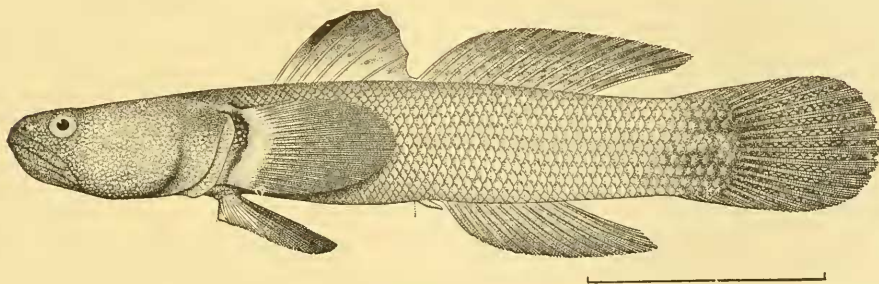


Fig. 314.

1039. *Tridentiger bifasciatus* Steindachner. (Fig. 315).

Shima-haze.

Tridentiger bifasciatus Steindachner, Ichth. Beitr., X, p. 12 (190). Bay of Strielok, Japan Sea, near Vladivostock.

Trifissus ioturus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 373. Bay of Tōkyō.

Distrib.—Bay of Strielok; Tōkyō; Nagasaki; Fukura, Awaji.

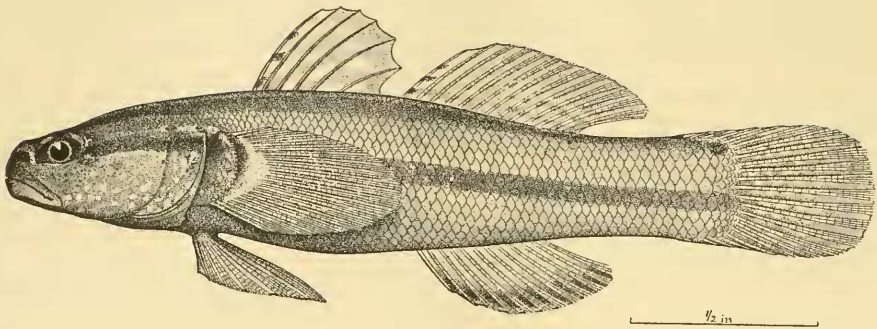


Fig. 315.

1040. *Tridentiger marmoratus* Regan.

Sarasa-haze.

Tridentiger marmoratus Regan, Ann. Mag. Nat. Hist., 1905, p. 22, pl. II,
fig. 2. Inland Sea of Japan.

Distrib.—Inland Sea of Japan.

1041. *Tridentiger genimaculatus* Regan.

Seto-shima-haze.

Tridentiger genimaculatus Regan, Ann. Mag. Nat. Hist., 1905, p. 23, pl. II,
fig. 1. Inland Sea of Japan.

Distrib.—Inland Sea of Japan.

Genus *Astrabe* Jordan & Snyder.

Astrabe Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 119.

Type *Astrabe lactisella* Jordan & Snyder.

1042. *Astrabe lactisella* Jordan & Snyder. (Fig. 316).

Shiro-kura-haze.

Astrabe lactisella Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 119,
fig. 26. Misaki, Sagami.

Distrib.—Misaki, Sagami.

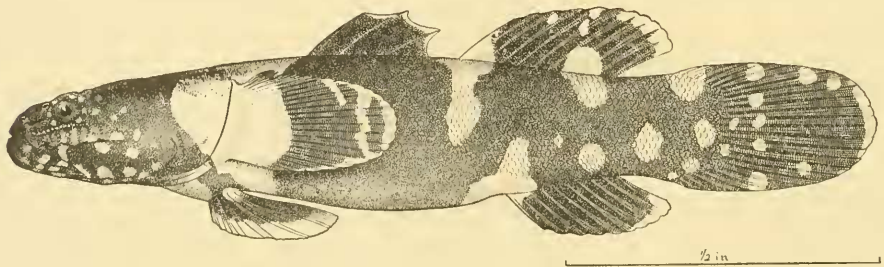


Fig. 316.

Genus *Clariger* Jordan & Snyder.*Clariger* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 120.Type *Clariger cosmurus* Jordan & Snyder.**1043. *Clariger cosmurus*** Jordan & Snyder. (Fig. 317).

Se-ziro-haze.

Clariger cosmurus Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 121, fig. 27. Misaki, Sagami.

Distrib.—Misaki, Sagami.



Fig. 317.

1044. *Clariger exilis* Snyder.

Shimo-furi-seziro-haze.

Clariger exilis Snyder, Proc. U. S. Nat. Mus., XL, 1911, p. 544. Tanegashima.

Distrib.—Tanegashima.

Genus *Eutæniichthys* Jordan & Snyder.*Eutæniichthys* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 122.Type *Eutæniichthys gilli* Jordan & Snyder.**1045. *Eutæniichthys gilli*** Jordan & Snyder.

Himo-haze.

Eutæniichthys gilli Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 122, fig. 28. Tone R, near Tōkyō.

Distrib—Tone R.

Genus *Inu* Snyder.*Inu* Snyder, Proc. U. S. Nat. Mus., XXXVI, 1909, p. 607.Type *Inu koma* Snyder.

1046. Inu koma Snyder.**Koma-haze.***Inu koma* Snyder, Proc. U. S. Nat. Mus., XXXVI, 1909, p. 607. Misaki, Sagami.

Distrib.—Misaki, Sagami.

1047. Inu ama Snyder.**Ama-haze.***Inu ama* Snyder, Proc. U. S. Nat. Mus., XXXVI, 1909, p. 608. Misaki, Sagami.

Distrib.—Misaki, Sagami.

Genus *Luciogobius* Gill.*Luciogobius* Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 146.Type *Luciogobius guttatus* Gill.**1048. *Luciogobius guttatus* Gill. (Fig. 318).****Mimizu-haze.***Luciogobius guttatus* Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 146. Shimoda, Idzu.

Distrib.—Hakodate to Nagasaki.

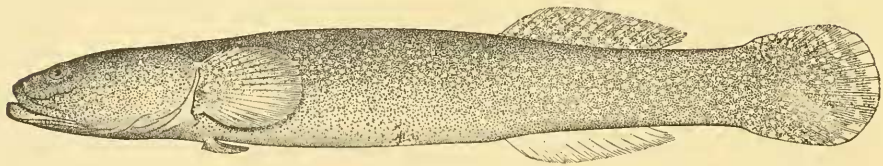


Fig. 318.

1049. *Luciogobius elongatus* Regan.**Naga-mimizu-haze.***Luciogobius elongatus* Regan, Ann. Mag. Nat. Hist., 1905, p. 23. Inland Sea of Japan.

Distrib.—Inland Sea of Japan.

Genus *Expedio* Snyder.*Expedio* Snyder, Proc. U. S. Nat. Mus., XXXVI, 1909, p. 606.Type *Expedio parvulus* Snyder.

1050. *Expedio parvulus* Snyder.

Nansen-haze.

Expedio parvulus Snyder, Proc. U. S. Nat. Mus., XXXVI, 1909, p. 606.

Misaki, Sagami.

Distrib.—Misaki, Sagami.

Genus *Leucopsarion* Hilgendorf.*Leucopsarion* Hilgendorf, Berliner Monatsber., 1880, p. 339.Type *Leucopsarion petersi* Hilgendorf.1051. *Leucopsarion petersi* Hilgendorf. (Fig. 319).

Shirasu; Shiro-uwo.

Leucopsarion petersi Hilgendorf, Berliner Monatsber., April 5, 1880, p. 340.

Southern Japan.

Distrib.—Aomori to Kagoshima.

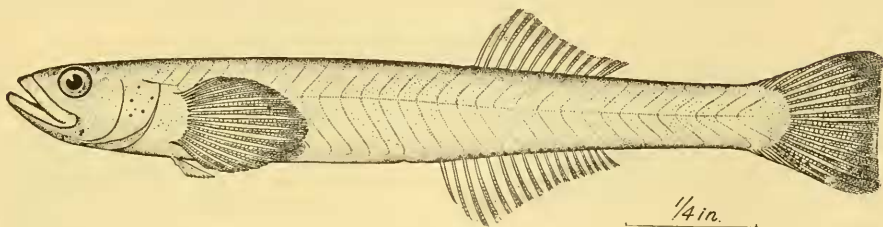


Fig. 319.

Genus *Trypauchen* Cuvier & Valenciennes.*Trypauchen* Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 1837, p. 152.Type *Gobius vagina* Bloch & Schneider.1052. *Trypauchen wakæ* Jordan & Snyder. (Fig. 320).

Aka-uwo (Okayama).

Trypauchen wakæ Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1901, p. 127, fig. 32. Wakanoura, Kii.

Distrib.—Okayama to Owari Bay.

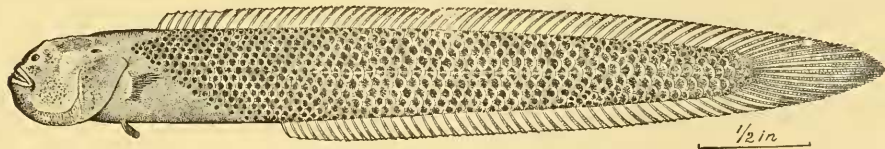


Fig. 320.

Genus *Trypauchenophrys* Franz.*Trypauchenophrys* Franz, Abh. Bayer. Akad., IV, 1910, p. 68.Type *Trypauchenophrys anotus* Franz.

1053. Trypauchenophrys anotus Franz.**Hama-akauwo.***Trypauchenophrys anotus* Franz, Abh. Bayer. Akad., IV, 1910, p. 68, pl. IX, fig. 77. Fukuura.

Distrib.—Fukuura.

Genus Tænioides Lacépède.*Tænioides* Lacépède, Hist. Nat. Poiss., II, 1798, p. 580.Type *Tænioides herrmannianus* Lacépède.**1054. Tænioides lacepedei** (Temminck & Schlegel). (Fig. 321).**Warazubo** (Yanagawa, Kiusiu).*Amblyopus lacepedi* Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 146, pl. LXXV, fig. 2. Bay of Ōmura, near Nagasaki.

Distrib.—Wakanoura ; Shinagawa, near Tōkyō ; Okayama ; Yanagawa, Kiusiu.

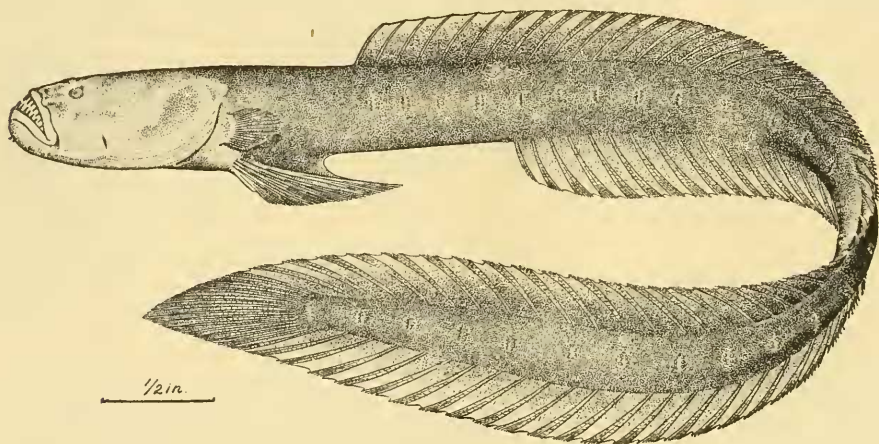


Fig. 321.

Family PTEROPSARIDÆ.**Genus Parapercis** Bleeker.*Percis* Schneider, Syst. Ichth., 1801, p. 170 (*Percis maculata* Bloch & Schneider, not of Scopoli, a genus of Agonidae, 1777).*Parapercis* Bleeker, Fauna Ichth. China. Ned. Tydskr. Dierk., IV, 1872, p. 127.Type *Sciæna cylindrica* Bloch.**1055. Parapercis pulchella** (Temminck & Schlegel).**Tora-gisu** (Misaki, Sagami).*Percis pulchella* Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 24, pl. X, fig. 2. Nagasaki.

Distrib.—Tōkyō to Nagasaki ; Canton.

1056. *Parapercis ommatura* Jordan & Snyder. (Fig. 322).

Mato-gisu.

Parapercis ommatura Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p. 465, fig. 1. Nagasaki.

Distrib.—Nagasaki ; Inland Sea of Japan ; Tsuruga ; Kōbe.

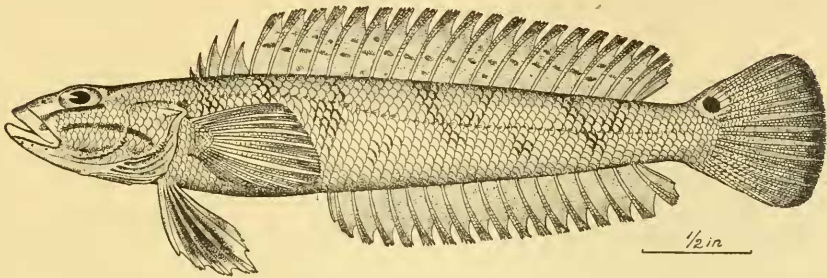


Fig. 322.

1057. *Parapercis snyderi* Jordan & Starks. (Fig. 323).

Kōrai-tora-gisu.

Parapercis snyderi Jordan & Starks, Proc. U. S. Nat. Mus., XXVIII, 1905, p. 210, fig. 10. Korea.

Distrib.—Korea ; Nagasaki.

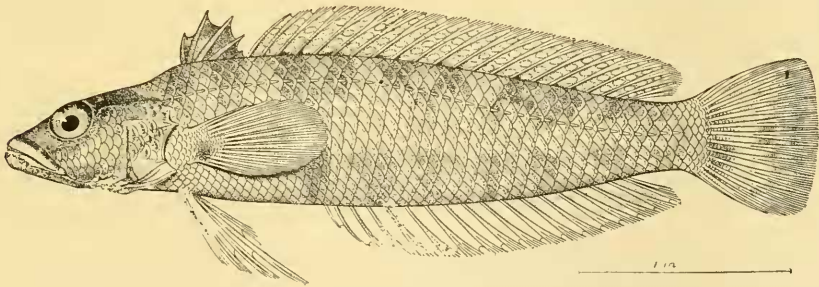


Fig. 323.

Genus *Neopercis* Steindachner.*Parapercis* Steindachner, Ichth. Beitr., XIII, 1883, p. 1072. (*Percis ramsayi* Steindachner).*Neopercis* Steindachner, Fische Japans, III, 1884, p. 212.Type *Percis ramsayi* Steindachner.

1058. *Neopercis sexfasciata* (Temminck & Schlegel).

Kurakake-gisu.

Percis sexfasciata Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 25.
Nagasaki.

Distrib.—Tōkyō to Nagasaki.

1059. *Neopercis multifasciata* (Döderlein).

Oki-tora-gisu.

Parapercis multifasciata Döderlein, Fische Japans, III, 1884, p. 190, pl. IV,
fig. 2, 2a. Bay of Tōkyō.

Distrib.—Tōkyō to Nagasaki.

1060. *Neopercis aurantiaca* (Döderlein).

Aka-tora-gisu.

Parapercis aurantiaca Döderlein, Fische Japans, III, 1884, p. 191, pl. III,
figs. 2, 2a. Tōkyō.

Distrib.—Tōkyō.

1061. *Neopercis decemfasciata* Franz.

Yūdachi-tora-gisu.

Neopercis decemfasciata Franz, Abh. Bayer. Akad., 1910, p. 81, taf. IX, fig.
78. Misaki, Sagami; Aburatsubo, Sagami; Yokohama.

Distrib.—Sagami Sea.

Genus *Bembrops* Steindachner.*Bembrops* Steindachner, Sitzber. Wien, LXXIV, I, p. 211 (Ichth. Beitr., V),
1876, p. 163.Type *Bembrops caudimacula* Steindachner.1062. *Bembrops caudimacula* Steindachner.

Ai-tora-gisu.

Bembrops caudimacula Steindachner, Ichth. Beitr., V, 1876, p. 163. Nagasaki.
Distrib.—Nagasaki.Genus *Pteropsaron* Jordan & Snyder.*Pteropsaron* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p. 470.Type *Pteropsaron evolans* Jordan & Snyder.

1063. *Pteropsaron evolans* Jordan & Snyder. (Fig. 324).

Hokage-tora-gisu.

Pteropsaron evolans Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p. 471, fig. 2. Sagami Bay.

Distrib.—Sagami Bay ; Owari Bay.

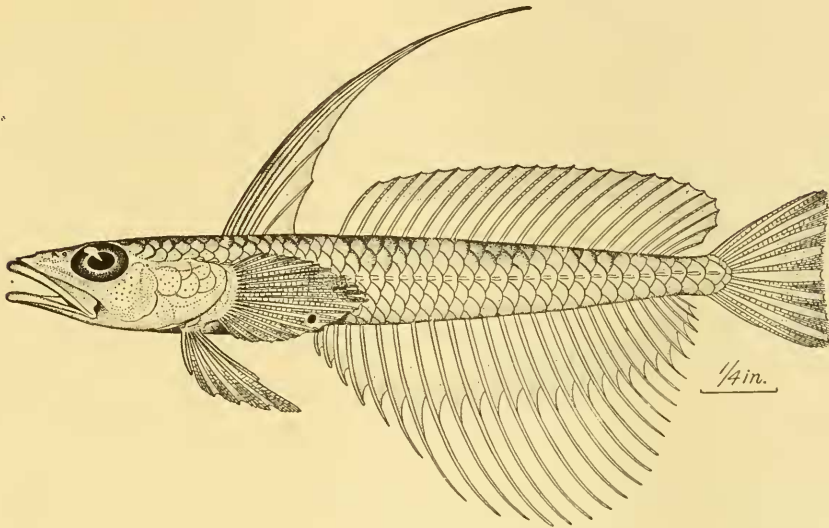


Fig. 324.

Genus *Osopsaron* Jordan & Starks.*Osopsaron* Jordan & Starks, Bull. U. S. Fish Comm. for 1902, 1904, p. 600.Type *Pteropsaron verecundum* Jordan & Snyder.1064. *Osopsaron verecundum* (Jordan & Snyder). (Fig. 325).

Hime-tora-gisu.

Pteropsaron verecundum Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p. 472, fig. 3. Suruga Bay.

Distrib.—Suruga Bay.

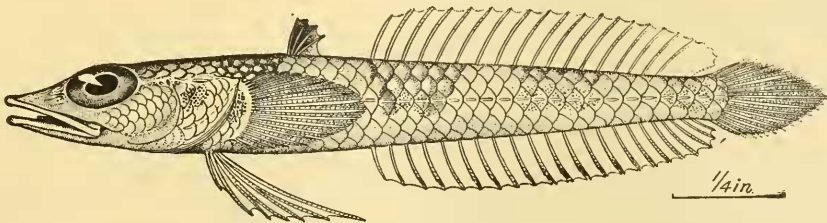


Fig. 325.

Family TRICHODONTIDÆ.**Genus Trichodon** (Steller) Tilesius.

Trichodon Steller, in Tilesius, Mem. Acad. St. Petersburg, IV, 1811, p. 468.

Trichodon Cuvier, Règne Animal, 2d ed., II, 1829, p. 140 (*Trachinus trichodon* Tilesius).

Type *Trachinus trichodon* Tilesius.

1065. *Trichodon trichodon* (Tilesius).

Yezo-hatahata.

Trachinus trichodon Tilesius, Mem. Acad. St. Petersburg, IV, 1811, p. 473, pl. XV, fig. 8. Kamchatka.

Trichodon stelleri Cuvier & Valenciennes, Hist. Nat. Poiss., III, 1829, p. 154, pl. LVII. Based on *Trachinus trichodon*.

Trachinus gastropelecus Tilesius, Mem. Acad. St. Petersburg, IV, 1811, p. 466. Kamchatka.

Distrib.—North Pacific, from Bering Sea to Monterey, California; Hakkaidō, Japan.

Genus Arctoscopus Jordan & Evermann.

Arctoscopus Jordan & Evermann, Check-List Fishes, 1896, p. 464.

Type *Trichodon japonicus* Steindachner.

1066. *Arctoscopus japonicus* (Steindachner).

Hata-hata.

Trichodon japonicus Steindachner, Ichth. Beitr., X, 1881, p. 4. Strielok, near Vladivostok; Sitka.

Distrib.—North Pacific; Strielok; Iturup I.; Chipesani, Saghalien; Kushiro, Hakkaidō; Tsugaru, near Aomori.

Family URANOSCOPIDÆ.**Genus Uranoscopus** Linnæus.

Uranoscopus Linnæus, Syst. Nat., 10th ed., 1758, p. 250.

Type *Uranoscopus scaber* Linnæus.

1067. *Uranoscopus oligolepis* Bleeker.

Nirami-okoze.

Uranoscopus oligolepis Bleeker, Atlas Ichth., p. 425, Trig., pl. V, fig. 7. Sumatra; Amboina; Nagasaki.

Distrib.—East Indies; Amboina; Straits of Sunda; Japan.

1068. *Uranoscopus japonicus* Houttuyn.

Mishima-okoze; Temmondai-okoze.

Uranoscopus japonicus Houttuyn, Holl. Maats. Wet. Haarlem, 1782, p. 311.
Nagasaki.*Uranoscopus asper* Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p. 26,
pl. IX, fig. 1. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

1069. *Uranoscopus bicinctus* Temminck & Schlegel.

Megane-uwo.

Uranoscopus bicinctus Temminck & Schlegel, Fauna Japonica, Poiss., 1843, p.
26, pl. XB. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

Genus *Ichthyoscopus* Swainson.*Ichthyoscopus* Swainson, Nat. Hist. Fish. etc., II, 1839, p. 269.Type *Uranoscopus inermis* Cuvier & Valenciennes.**1070. *Ichthyoscopus lebeck* (Schneider).**

Satsuo-mishima.

Uranoscopus lebeck Schneider, Syst. Ichth., 1801, p. 47. Traquebar.*Uranoscopus inermis* Cuvier & Valenciennes, Hist. Nat. Poiss., III, 1829, p.
310, pl. LXV. Coromandel; Malabar; Pondicherry.

Distrib.—East Indies; Wakanoura; Onomichi; Hakata.

Genus *Gnathagnus* Gill.*Gnathagnus* Gill, Proc. Ac. Nat. Sci. Phila., 1861, p. 115.Type *Uranoscopus elongatus* Temminck & Schlegel.**1071. *Gnathagnus elongatus* (Temminck & Schlegel).**

Ao-mishima.

Uranoscopus elongatus Temminck & Schlegel, Fauna Japonica, Poiss., 1843,
p. 27, pl. IX, fig. 2. Nagasaki.

Distrib.—Aomori; Nagasaki.

Genus *Ariscopus* Jordan & Snyder.*Ariscopus* Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p. 479.Type *Ariscopus iburius* Jordan & Snyder.

1072. *Ariscopus iburius* Jordan & Snyder. (Fig. 326).

Ibur'-mishima.

Ariscopus iburius Jordan & Snyder, Proc. U. S. Nat. Mus., XXIV, 1902, p. 479, fig. 4. Tomakomaki, Iburi, Hokkaidō.

Distrib.—Tomakomaki ; Volcano Bay.

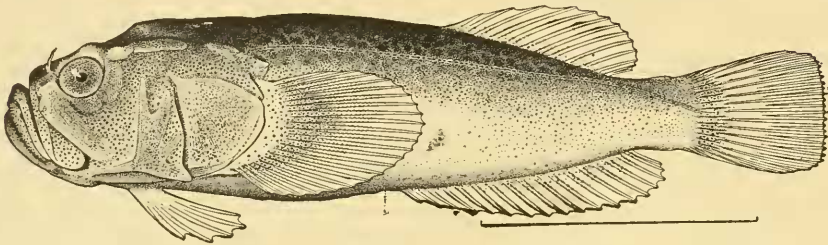


Fig. 326.

Family CHAMPSODONTIDÆ.**Genus Champsodon** Günther.*Champsodon* Günther, Zool. Soc. Lond., 1867, p. 102.Type *Champsodon vorax* Günther.1073. *Champsodon snyderi* Franz.

Wani-gisu.

Champsodon snyderi Franz, Abh. Bayer. Akad., 1910, p. 82, taf. IX, fig. 74.

Fukuura ; Misaki, Sagami ; Yagoshima.

Distrib.—Sagami Sea.

Family CHIASMODONTIDÆ.**Genus Pseudoscopelus** Lütken.*Pseudoscopelus* Lütken, Spolia Atlantica, Scopelini, 1892, p. 64.Type *Pseudoscopelus scriptus* Lütken.1074. *Pseudoscopelus sagamianus* (Tanaka).

Kure-bōzu-gisu.

Pseudoscopelus scriptus sagamianus Tanaka, Journ. Coll. Sci. Imp. Univ.

Tokyo, XXIII, Art. 13, July 28, 1908, p. 13, pl. I, fig. 2. Sagami Sea.

Distrib.—Sagami Sea.

Family CARISTIIDÆ.

Genus Caristius Gill & Smith.

Caristius Gill & Smith, Proc. Biol. Soc. Wash., XVIII, 1905, p. 249.

Type *Caristius japonicus* Gill & Smith.

1075. *Caristius japonicus* Gill & Smith. (Fig. 327).

Yae-gisu.

Caristius japonicus Gill & Smith, Proc. Biol. Soc. Wash., XVIII, 1905, p. 249.

Kagoshima.

Distrib.—Kagoshima.

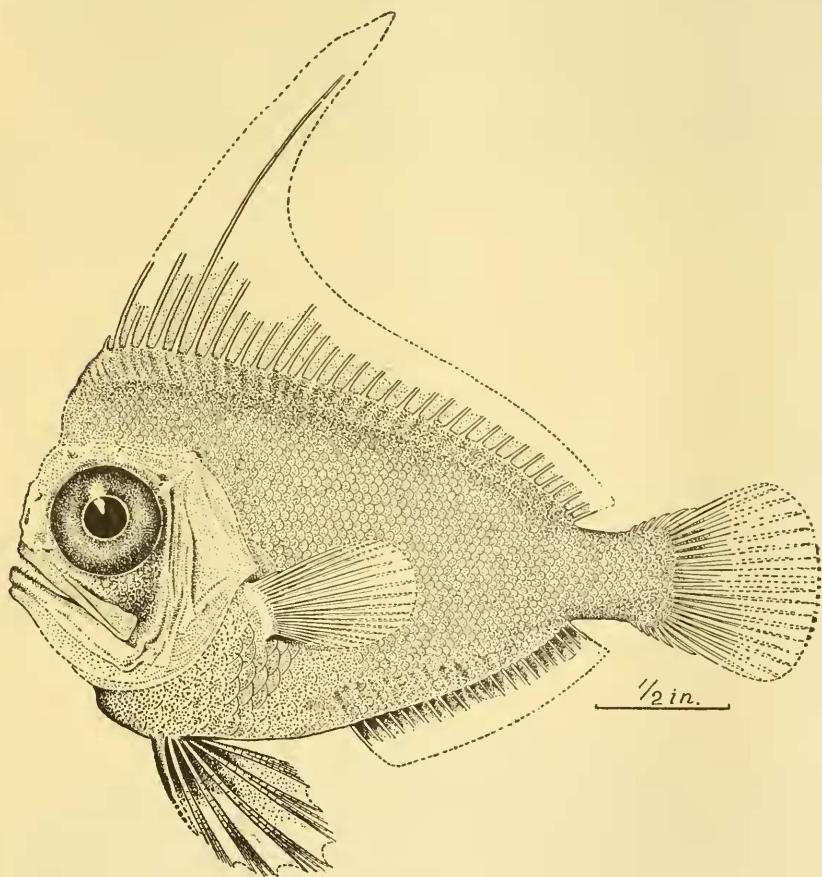


Fig. 327.

Family HARPAGIFERIDÆ.

Genus Draconetta Jordan & Fowler.

Draconetta Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1903, p. 939.

Type *Draconetta xenica* Jordan & Fowler.

1076. *Draconetta xenica* Jordan & Fowler. (Fig. 328).**Inaka-numeri.**

Draconetta xenica Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1903, p. 939, fig. 1. Suruga Bay.

Distrib.—Suruga Bay.

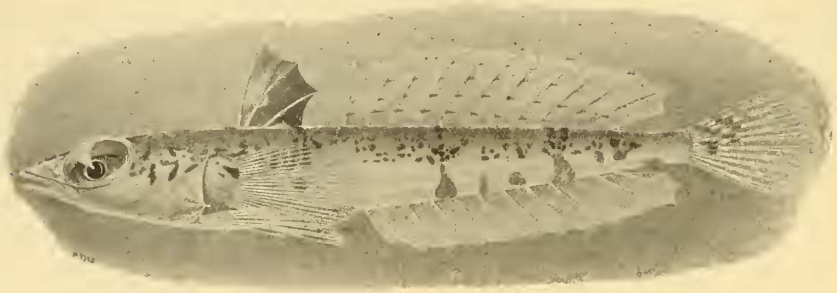


Fig. 328.

Family CALLIONYMIDÆ.**Genus *Calliurichthys* Jordan & Fowler.**

Calliurichthys Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1903, p. 941.

Type *Callionymus japonicus* Houttuyn.

1077. *Calliurichthys doryssus* Jordan & Fowler. (Fig. 329).**Yari-numeri.**

Calliurichthys doryssus Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1903, p. 945, fig. 4. Nagasaki ; Wakanoura ; Aomori.

Distrib.—Aomori to Nagasaki.



Fig. 329.

1078. *Calliurichthys japonicus* (Houttuyn).

Yome-gochi.

Callionymus japonicus Houttuyn, Verh. Holl. Maatsch. Wet. Haarlem, XX, 1782, p. 311. Nagasaki.*Callionymus longicaudatus* Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 151, pl. LXXIX, fig. 1. Nagasaki.

Distrib.—Nagasaki; Wakanoura; Canton; Hongkong; Macao.

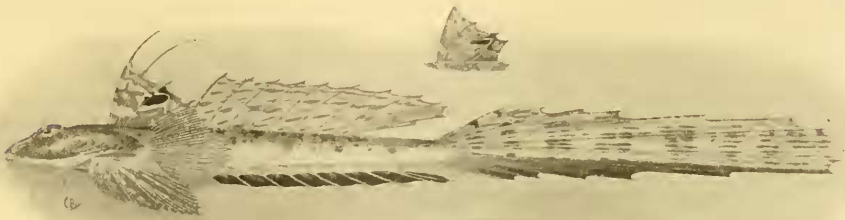


Fig. 330.

1079. *Calliurichthys variegatus* (Temminck & Schlegel). (Fig. 331).

Itohiki-numeri.

Callionymus variegatus Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 153. Nagasaki.

Distrib.—Nagasaki.

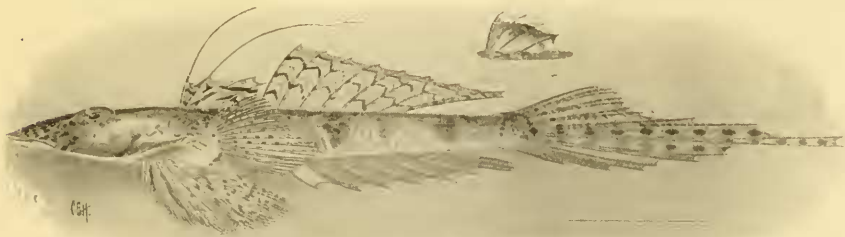


Fig. 331.

Genus *Callionymus* Linnaeus.*Callionymus* Linnaeus, Syst. Nat., 10th ed., 1758, p. 249.Type *Callionymus lyra* Linnaeus.1080. *Callionymus altivelis* Temminck & Schlegel.

Beni-toguri.

Callionymus altivelis Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 155, pl. LXXIX, fig. 1. Bay of Ōmura near Nagasaki.

Distrib.—Nagasaki.

1081. *Callionymus lunatus* Temminck & Schlegel. (Fig. 332).

Numerigochi (Misaki, Sagami); Nezuppo (Tōkyō).

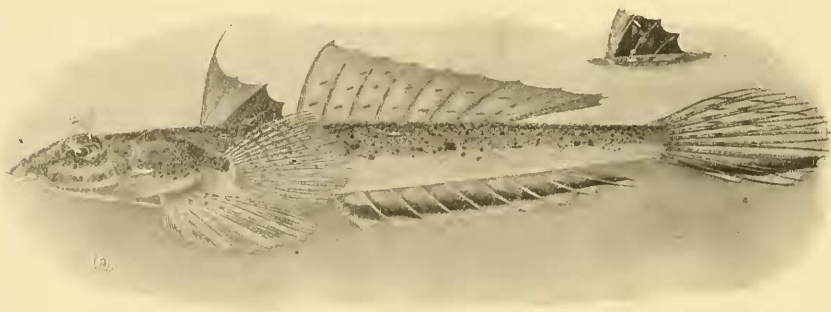
Callionymus lunatus Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 155, pl. LXXVIII, fig. 4. Nagasaki.*Callionymus inframundus* Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 129. Japan. Distrib.—Hakodate to Nagasaki.

Fig. 332.

1082. *Callionymus valenciennesi* Temminck & Schlegel. (Fig. 333).

Nezumi-gochi.

Callionymus valenciennesi Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 153, pl. LXXVIII, fig. 3. Nagasaki.*Callionymus richardsoni* Bleeker, Nat. Tyds. Ned. Ind., VI, 1854, Japan, p. 414. Nagasaki.

Distrib.—Hakodate to Nagasaki.

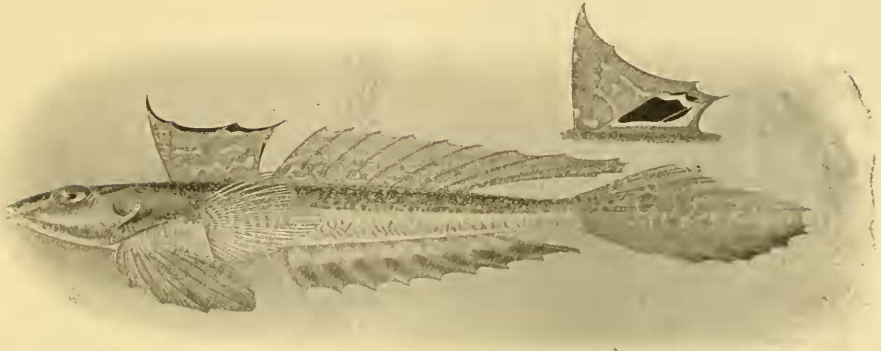


Fig. 333.

1083. *Callionymus beniteguri* Jordan & Snyder.

Tobi-numeri.

Callionymus beniteguri Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 370, pl. XVII. Tōkyō Bay.

Distrib.—Otaru to Nagasaki.

1084. *Callionymus kitaharæ* Jordan & Seale. (Fig. 334).

Kuro-numeri.

Callionymus kitaharæ Jordan & Seale, Proc. U. S. Nat. Mus., XXX, 1906, p. 148, fig. 6. Nagasaki.

Distrib.—Nagasaki.

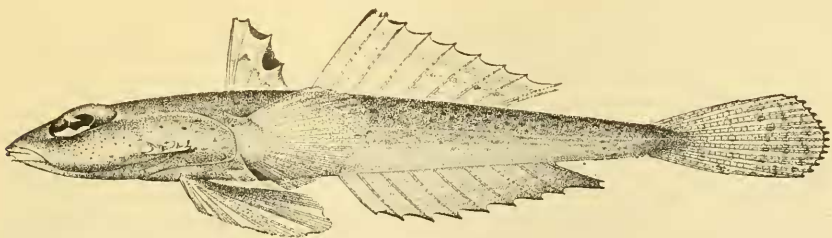


Fig. 334.

1085. *Callionymus ornatipinnis* Regan.

Seto-numeri.

Callionymus ornatipinnis Regan, Ann. Mag. Nat. Hist., 1905, p. 23, pl. III. Inland Sea of Japan.

Distrib.—Inland Sea of Japan.

1086. *Callionymus flagris* Jordan & Fowler. (Fig. 335).

Hatatate-numeri.

Callionymus flagris Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1903, p. 952, fig. 7. Tsuruga ; Tōkyō.

Distrib.—Aomori to Nagasaki.

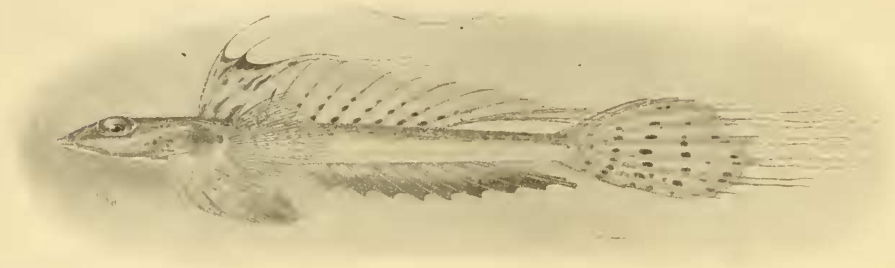


Fig. 335.

1087. *Callionymus virgis* Jordan & Fowler. (Fig. 336).

Horo-numeri.

Callionymus virgis Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1903, p. 957, fig. 9. Misaki, Sagami.

Distrib.—Misaki, Sagami.

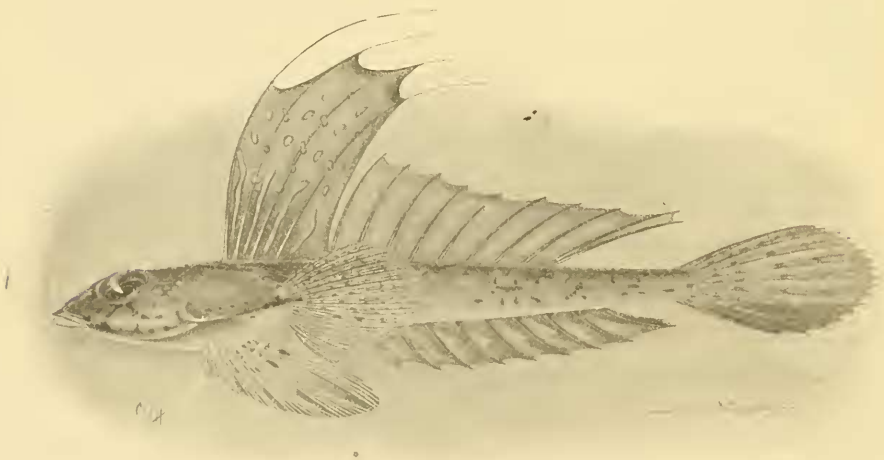


Fig. 336.

1088. *Callionymus calliste* Jordan & Fowler. (Fig. 337).**Hanabi-numeri.***Callionymus calliste* Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1903, p. 954, fig. 8. Misaki, Sagami.

Distrib.—Misaki, Sagami.

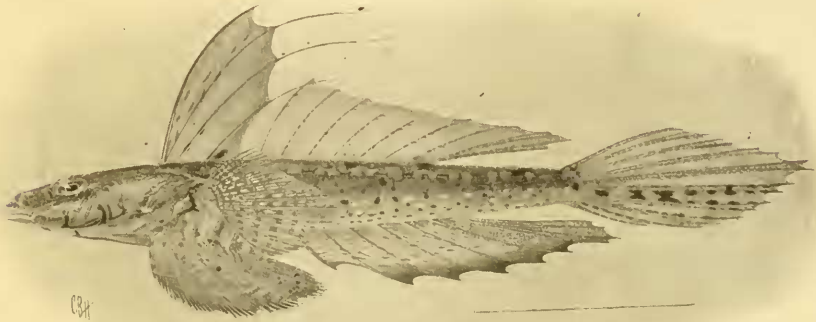


Fig. 337.

1089. *Callionymus huguenii* Bleeker.**Nagasaki-numeri.***Callionymus huguenii* Bleeker, Act. Soc. Sc. Indo. Néerl., V., 1858, Japan, V, p. 7, pl. II, fig. 1. Nagasaki.

Distrib.—Nagasaki.

Genus *Draculus* Snyder.*Draculus* Snyder, Proc. U. S. Nat. Mus., XL, 1911, p. 545.Type *Draculus mirabilis* Snyder.**1090. *Draculus mirabilis* Snyder.****Bake-numeri.***Draculus mirabilis* Snyder, Proc. U. S. Nat. Mus., XL, 1911, p. 545. Tomakomai, Hokkaidō.

Distrib.—Northern Japan.

Family GOBIESOCIDÆ.**Genus *Aspasma* Jordan & Fowler.***Aspasma* Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1902, p. 414.Type *Lepadogaster minimus* Döderlein.

1091. *Aspasma minima* (Döderlein).

Uba-uwo.

Lepadogaster minimus Döderlein, Fische Japans, IV, 1887, p. 270. Sagami Bay.

Distrib.—Misaki, Sagami ; Sagami Bay.

1092. *Aspasma misakia* Tanaka.

Misaki-uba-uwo.

Aspasma misakia Tanaka, Annot. Zool. Jap., VII, pt. I, Dec., 1908, p. 22.

Misaki, Sagami.

Distrib.—Misaki, Sagami.

1093. *Aspasma ciconiæ* Jordan & Fowler. (Fig. 338).

Tsuru-ubauwo.

Aspasma ciconiæ Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1902, p. 415,
with fig. Wakanoura.

Distrib.—Wakanoura.

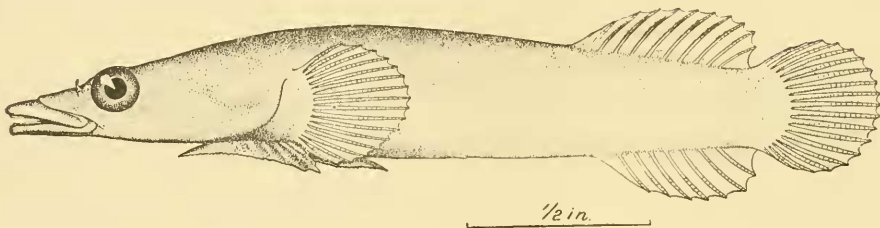


Fig. 338.

1094. *Aspasma laticephala* Tanaka.

Ankō-uba-uwo.

Aspasma laticephala Tanaka, Journ. Coll. Sci. Imp. Univ. Tokyo, XXVII, Art.
8, Oct. 1909, p. 25. Kōdzushima, one of the Seven Islands of Idzu.

Distrib.—Kōdzushima.

Family BLENNIIDÆ.**Genus *Enneapterygius* Rüppell.***Enneapterygius* Rüppell, Neue Wirbelthiere, 1837, p. 2.Type *Eunapterygius pusillus* Rüppell.**1095. *Enneapterygius etheostoma* (Jordan & Snyder). (Fig. 339).**

Hebi-ginpō.

Tripterygion etheostoma Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902,
p. 444, fig. 1. Misaki, Sagami.

Distrib.—Misaki ; Atami, Idzu ; Wakanoura.

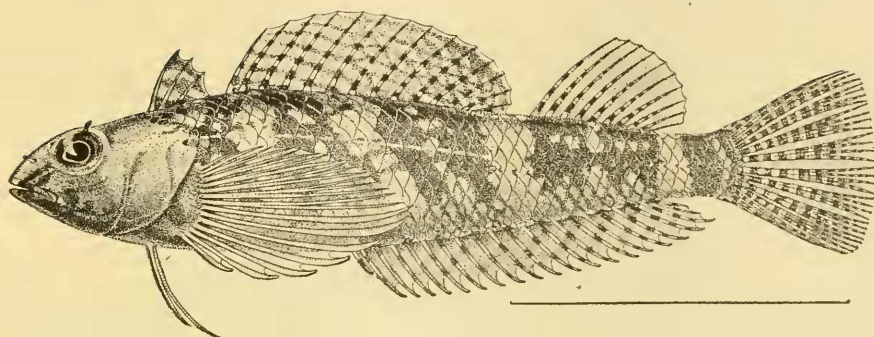


Fig. 339.

1096. *Enneapterygius tusitale* Jordan & Seale.

Kusa-ginpō.

Enneapterygius tusitale Jordan & Seale, Bull. U. S. Bureau Fisheries, XXV, 1906, p. 416, fig. 97. Samoa.

Distrib.—Samoa; Tanegashima (Snyder).

1097. *Enneapterygius bapturus* (Jordan & Snyder). (Fig. 340).

Hime-ginpō.

Tripterygion (misprint for *Tripterygion*) *bapturum* Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 447, fig. 2. Misaki, Sagami.

Distrib.—Misaki, Sagami.

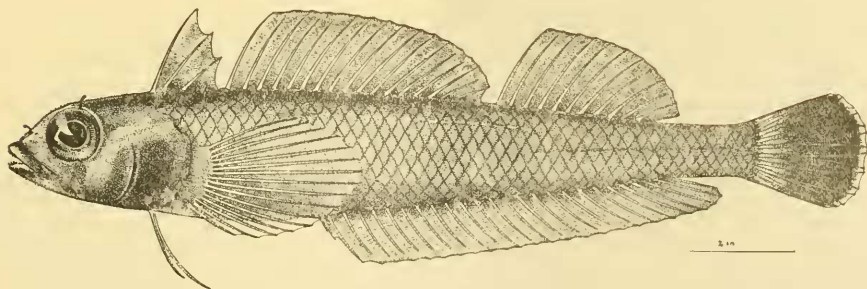


Fig. 340.

Genus *Zacalles* Jordan & Snyder.

Zacalles Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 448.

Type *Zacalles bryope* Jordan & Snyder.

1098. *Zacalles bryope* Jordan & Snyder. (Fig. 341).

Koke-ginpō.

Zacalles bryope Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 448, fig. 3. Misaki, Sagami.

Distrib.—Misaki; Enoura, Suruga; Wakanoura.

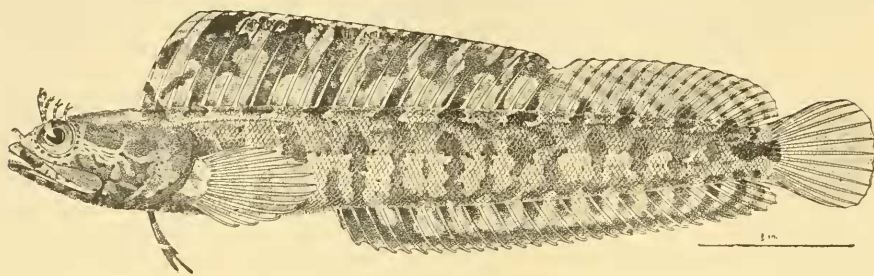


Fig. 341.

Genus *Blennius* (Artedi) Linnæus.*Blennius* Artedi, Genera, 1738, p. 27.*Blennius* Linnæus, Syst. Nat., 10th ed., 1758, p. 256.Type *Blennius gallerita* Linnæus.1099. *Blennius yatabei* Jordan & Snyder. (Fig. 342).

Iso-ginpō.

Blennius yatabei Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1900, p. 374, pl. XIX. Misaki, Sagami.

Distrib.—Misaki, Sagami; Enoshima; Wakamoura.

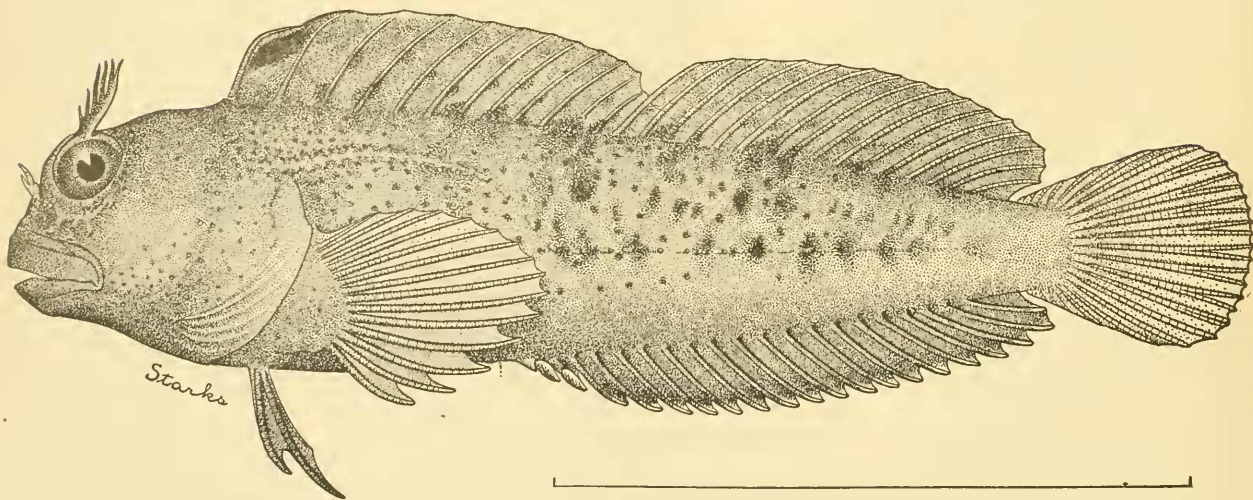


Fig. 342.

Genus *Alticus* Commerson.*Alticus* Commerson, in Lacépède, Hist. Nat. Poiss., II, 1800, p. 458.Type *Blennius saliens* Lacépède.**1100. *Alticus ellipes*** (Jordan & Starks). (Fig. 343).

Rōsoku-ginpō.

Blennius ellipes Jordan & Starks, Proc. U. S. Nat. Mus., XXX, 1906, p. 702,
fig. 9. Tanegashima.

Distrib.—Tanegashima ; Yakushima.

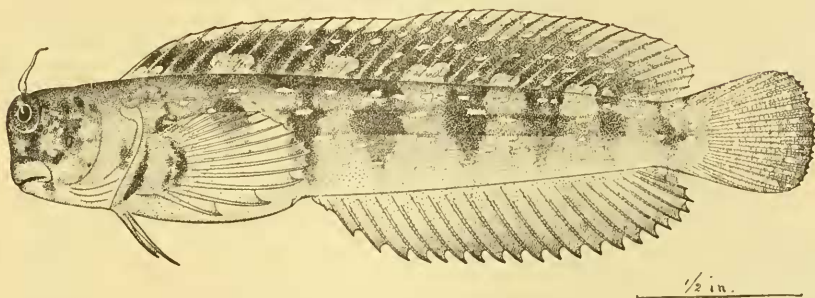


Fig. 343.

1101. *Alticus margaritarius* Snyder.

Tama-ginpō.

Alticus margaritarius Snyder, Proc. U. S. Nat. Mus., XXXV, 1908, p. 106.
Tanegashima.

Distrib.—Tanegashima.

Genus *Petroscirtes* Rüppell.*Petroscirtes* Rüppell, Atlas Fische, 1828, p. 110.Type *Petroscirtes mitratus* Rüppell.**1102. *Petroscirtes loxozonus*** Jordan & Starks. (Fig. 344).

Kumo-ginpō.

Petroscirtes loxozonus Jordan & Starks, Proc. U. S. Nat. Mus., XXX, 1906, p.
705, fig. 13. Tanegashima.

Distrib.—Tanegashima.

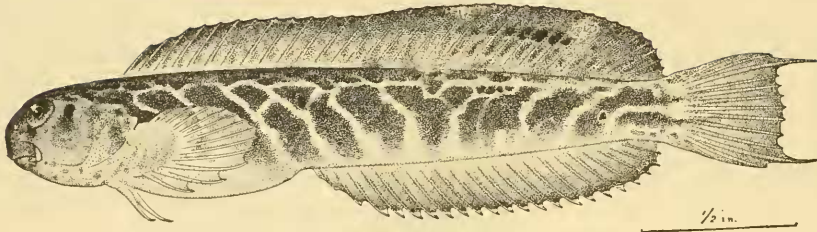


Fig. 344.

1103. *Petroscirtes elegans* (Steindachner). (Fig. 345).

Nabeika (Misaki, Sagami); *Nabe'cho* (Jōgashima, Misaki).

Petroscirtes elegans Steindachner, Ichth. Beitr., V, 1876, p. 169. Nagasaki.

Petroscirtes lineopunctatus (Guichenot Ms.) Sauvage, Bull. Sci. Philom., IV, 1880, p. 216. Japan.

Distrib.—Hakodate to Nagasaki.

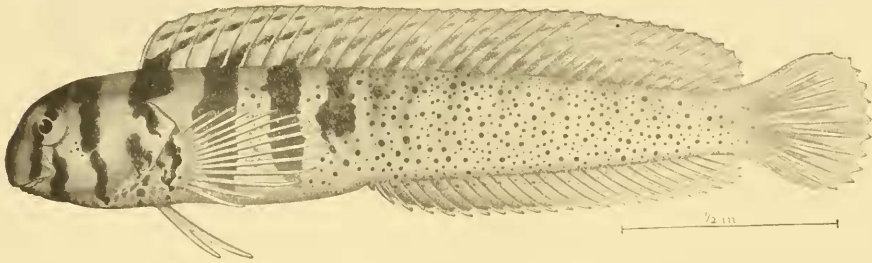


Fig. 345.

1104. *Petroscirtes trossulus* (Jordan & Snyder). (Fig. 346).

Niji-ginpō.

Aspidontus trossulus Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 455, fig. 7. Misaki, Sagami.

Distrib.—Misaki, Sagami.

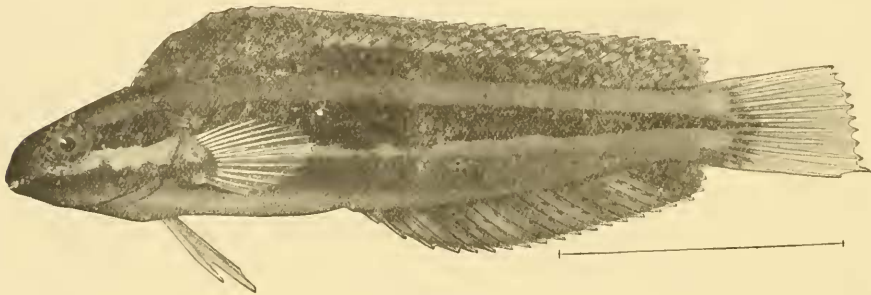


Fig. 346.

1105. *Petroscirtes japonicus* Bleeker. (Fig. 347).

Idaten-ginpō.

Petroscirtes japonicus Bleeker, Kon. Ak. Wet. Versal. Amst., 2nd Reek., III, p. 246. Jedo (Tōkyō).*Aspidontus dasson* Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 456, fig. 8. Wakanoura.

Distrib.—Wakanoura; Agui in Shima.

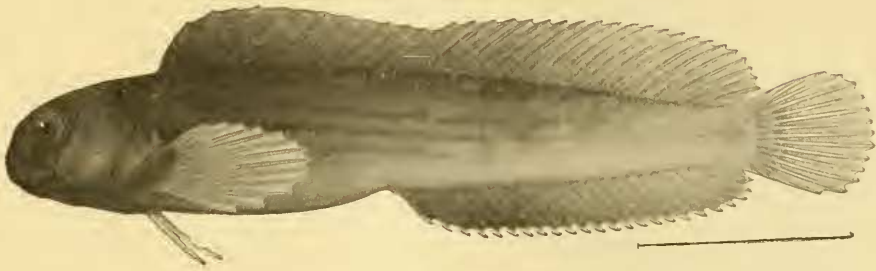


Fig. 347.

Genus *Salarias* Cuvier.*Salarias* Cuvier, Règne Animal, 2d ed., 1829, p. 175.Type *Salarias quadripinnis* Rüppell.1106. *Salarias andersoni* Jordan & Starks. (Fig. 348).

Shima-ginpō.

Salarias andersoni Jordan & Starks, Proc. U. S. Nat. Mus., XXX, 1906, p. 703, fig. 11. Tanegashima.

Distrib.—Tanegashima.

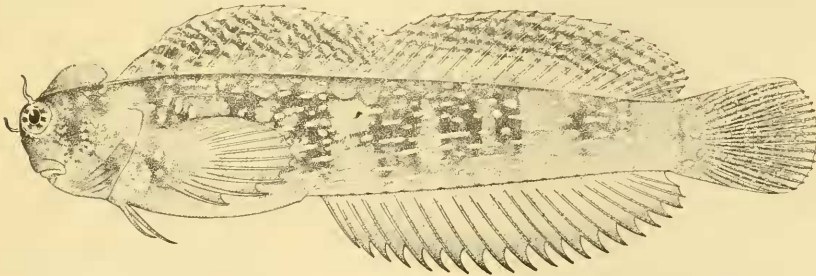


Fig. 348.

1107. *Salarias lineatus* Bleeker.

Kuro-ami-ginpō.

Salarias lineatus Bleeker, Verh. Bat. Gen., XXII, 1849, p. 18. East Indies; South seas.

Distrib.—East Indies; South Seas; Red Sea; Andaman Is.; Tanegashima (Snyder).

1108. *Salarias tanegashimæ* Jordan & Starks. (Fig. 349).

Taneginpō.

Salarias tanegashimæ Jordan & Starks, Proc. U. S. Nat. Mus., XXX, 1906, p. 704, fig. 12. Tanegashima; Miyanoura, Yakushima.

Distrib.—Tanegashima; Miyanoura, Yakushima.

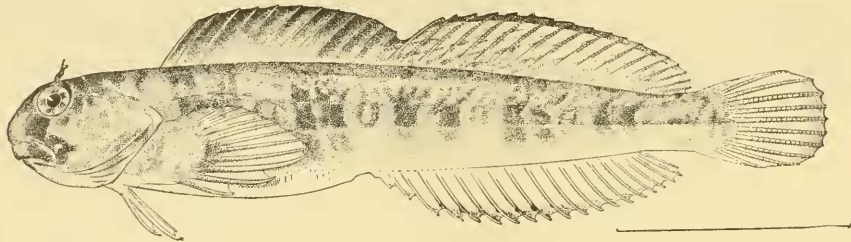


Fig. 349.

1109. *Salarias enosimæ* (Jordan & Snyder). (Fig. 350).

Kaeru-uwo.

Scartichthys enosimæ Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 460, fig. 9. Misaki, Sagami.

Distrib.—Jōgashima, Misaki; Enoshima.

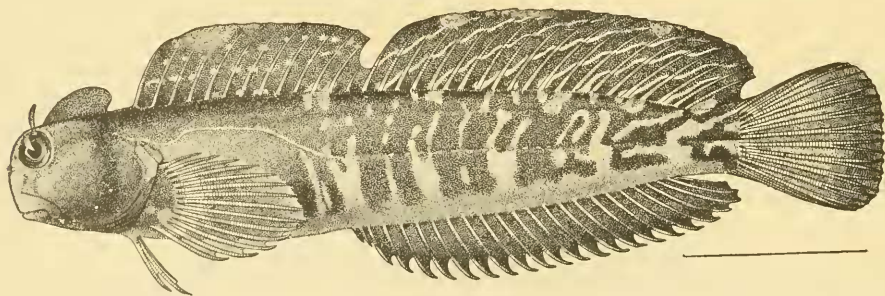


Fig. 350.

1110. *Salarias stellifer* (Jordan & Snyder). (Fig. 351).

Hoshi-ginpō.

Scartichthys stellifer Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 461, fig. 10. Wakanoura.

Distrib.—Wakanoura.

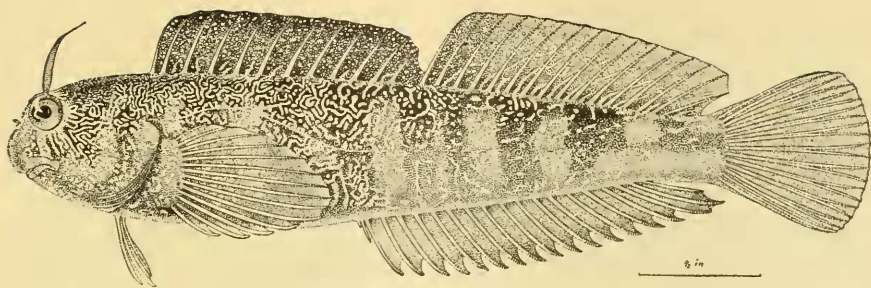


Fig. 351.

Genus *Azuma* Jordan & Snyder.

Azuma Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 463.

Type *Azuma emmnion* Jordan & Snyder.

1111. *Azuma emmnion* Jordan & Snyder. (Fig. 352).

Fusa-ginpō.

Azuma emmnion Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 463,
fig. 11. Hakodate.

Distrib.—Hakodate ; Same ; Miyako.

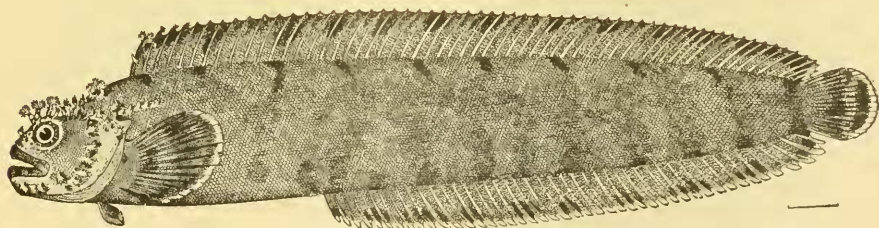


Fig. 352.

Genus *Bryostemma* Jordan & Starks.

Bryostemma Jordan & Starks, Proc. Cal. Ac. Sci., 1895, p. 841.

Type *Blennius polyactcephalus* Pallas.

1112. *Bryostemma polyactcephalum* (Pallas). (Fig. 353).

Riuguu-ginpō.

Blennius polyactcephalus Pallas, Zool. Rosso-Asiat., III, 1811, p. 179.
Kamchatka.

Chirolophus japonicus Herzensteir, Mélanges Biologiques, XIII, 1890 p. 123.
Hakodate.

Bryostemma otohime Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 466, fig. 12. Hakodate.

Distrib.—Kamchatka ; Hakodate.

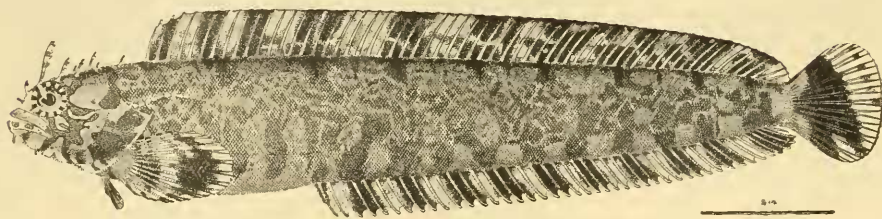


Fig. 353.

1113. *Bryostemma saitone* Jordan & Snyder. (Fig. 354).

Akiginpō.

Bryostemma saitone Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 467, fig. 13. Aomori.

Distrib.—Aomori.

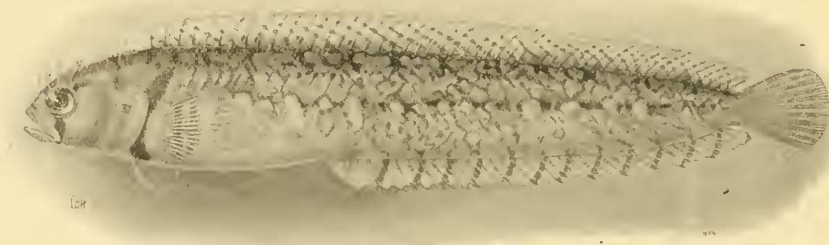


Fig. 354.

Genus *Enedrias* Jordan & Gilbert.

Enedrias Jordan & Gilbert, in Jordan & Evermann, Fishes North and Mid. Amer., III, 1898, p. 2414.

Tope *Gunnellus nebulosus* Temminck & Schlegel.

1114. *Enedrias nebulosus* (Temminck & Schlegel). (Fig. 355).

Ginpō.

Gunnellus nebulosus Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 138, pl. LXXIII, fig. 2. Nagasaki.

Centronotus crassispina Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 139. Nagasaki.

Centronotus subfrenatus Gill, Proc. Ac. Nat. Sci. Phila., 1859, p. 146. Shimoda. Distrib.—Otaru to Nagasaki.



Fig. 355.

Genus *Cristiceps* Cuvier & Valenciennes.

Cristiceps Cuvier & Valenciennes, Hist. Nat. Poiss., XI, 1836, p. 402.

Type *Cristiceps australis* Cuvier & Valenciennes.

1115. *Cristiceps flammeus* Jordan & Starks. (Fig. 356).

Asahi-ginpō.

Cristiceps flammeus Jordan & Starks, Proc. U. S. Nat. Mus., XXX, 1906, p. 701, fig. 8. Tanegashima.

Distrib.—Tanegashima.

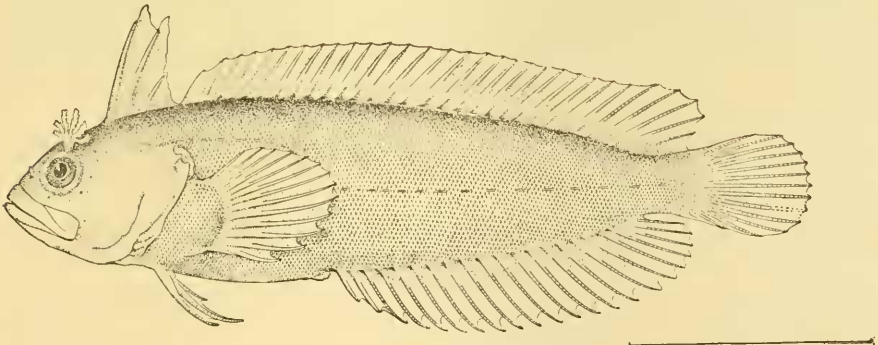


Fig. 356.

Genus *Pholis* (Gronow) Scopoli.

Pholis Gronow, Zoophylaceum, 1765, p. 78. (Nonbinomial).

Pholis Scopoli, Introd. Hist. Nat., 1777, p. 456.

Centronotus Bloch & Schneider, Syst. Ichth., 1801, p. 165 (*Centronotus fasciatus* Bloch & Schneider).

Urocentrus Kner, Sitzber. K. Akad. Wissen. Wien, LVIII, 1868, p. 51

Urocentrus pictus Kner).

Rhodymenichthys Jordan & Evermann, Check-List Fishes, 1896, p. 474
Gunnellus ruberrimus Cuvier & Valenciennes=*Blennius dolichogaster*
 Pallas).
 Type *Blennius gunnellus* Linnæus.

1116. *Pholis pictus* (Kner). (Fig. 357).

Nishiki-ginpō.

Urocentrus pictus Kner, Sitzungsber. Denkschr. Akad. Wissensch. LVIII, 1868,
 p. 51, pl. VII, fig. 21. Singapore; an error, probably from Decastris Bay.
 Distrib.—Ochotsk Sea; Shana Bay, Iturup Island, Kuril Group; Lososei Bay,
 Saghalien.

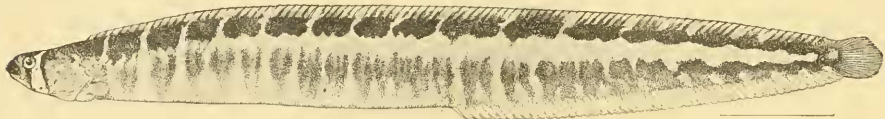


Fig. 357.

1117. *Pholis dolichogaster* (Pallas).

Chishima-ginpō.

Blennius dolichogaster Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 175. Kam-
 chatka
Gunnellus ruberrimus Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 1839,
 p. 440. Kuril Islands, after notes of Pallas, Zoogr. Rosso-Asiat., III,
 1811, p. 178.
 Distrib.—Bering Sea; Kurils; Robben; Medni; Bering Island; Kigiktoiwik Bay.

1118. *Pholis taczanowskii* (Steindachner).

Hakodate-ginpō.

Centronotus taczanowskii Steindachner, Ichth. Beitr., IX, 1880, p. 24, pl. III,
 fig. 1. Gulf of Strielok, Ochotsk Sea.
 Distrib.—Gulf of Strielok; Hakodate.

1119. *Pholis fasciatus* (Bloch & Schneider).

Himo-ginpō.

Centronotus fasciatus Bloch & Schneider, Syst. Ichth., 1801, p. 165, pl.
 XXXVII, fig. 1. Tranquebar (an error).
Blennius tænia Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 178. Kuril Islands.
 Distrib.—Bering Sea and Arctic Ocean, from Greenland to the Kurils; Aomori.

Genus *Gunnelops* Bleeker.*Gunnelops* Bleeker, Versl. Ak. Amst., (2), VIII, 1874, p. 368.Type *Blennius roscus* Pallas.**1120. *Gunnelops rosea* (Pallas).**

Bara-ginpō.

Blennius roscus Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 177. Kuril Is.

Distrib.—Kuril Islands.

Genus *Alectrias* Jordan & Evermann.*Alectrias* Jordan & Evermann, Fish. N. and M. Amer., III, 1898, p. 2869.Type *Blennius alectrolophus* Pallas.**1121. *Alectrias benjamini* Jordan & Snyder. (Fig. 358).**

Musha-ginpō.

Alectrias benjamini Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 475, fig. 16. Hakodate.

Distrib.—Hakodate ; Chipesani, Saghalien.

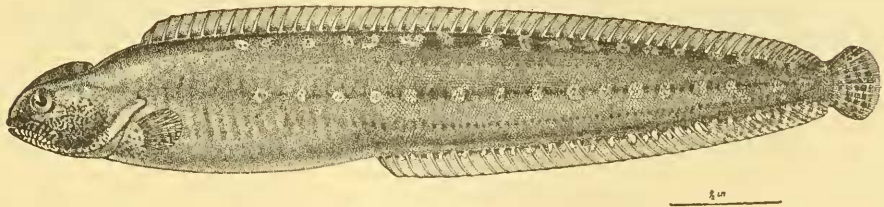


Fig. 358.

Genus *Eulophias* Smith.*Eulophias* H. M. Smith, Bull. U. S. Fish Comm., 1901 (March 28, 1902), p. 93.Type *Eulophias tanneri* Smith.**1122. *Eulophias tanneri* Smith. (Fig. 359).**

Ito-ginpō.

Eulophias tanneri H. M. Smith, Bull. U. S. Fish Comm., 1901 (March 28, 1902), p. 94. Suruga Bay.

Distrib.—Suruga Bay.

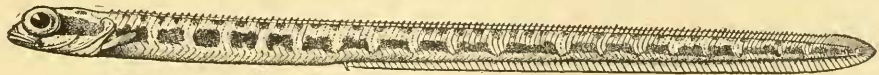


Fig. 359.

Genus *Neozoarces* Steindachner.*Neozoarces* Steindachner, Ichth. Beitr. IX, 1880, p. 26.Type *Neozoarces pulcher* Steindachner.1123. *Neozoarces pulcher* Steindachner.

Hime-ito-ginpō.

Neozoarces pulcher Steindachner, Ichth. Beitr., IX, 1880, p. 27, pl. VI, fig. 2.

Gulf of Strielok.

Distrib.—Gulf of Strielok.

1124. *Neozoarces steindachneri* Jordan & Snyder. (Fig. 360).

Hana-ito-ginpō.

Neozoarces steindachneri Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 479, fig. 18. Hakodate ; Otaru.

Distrib.—Hakodate ; Otaru ; Lake Busse, Saghalien.



Fig. 360.

Genus *Zoarchias* Jordan & Snyder.*Zoarchias* Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 480.Type *Zoarchias veneficus* Jordan & Snyder.1125. *Zoarchias glaber* Tanaka.

Tobi-ito-ginpō.

Zoarchias glaber Tanaka, Annot. Zool. Jap., VII, pt. I, 1908, p. 38. Sagami Sea.

Distrib.—Sagami Sea.

1126. *Zoarchias veneficus* Jordan & Snyder. (Fig. 361).

Kazu-nagi.

Zoarchias veneficus Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 480, fig. 19. Hakodate ; Mororan ; Otaru.

Distrib.—Hakodate ; Mororan ; Otaru.

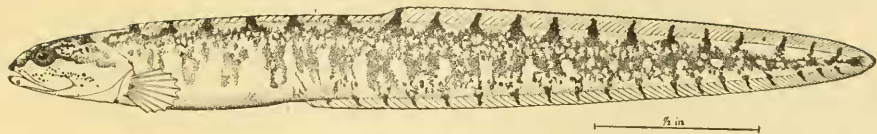


Fig. 361.

1127. *Zoarchias neglectus* Tanaka.

Komon-ito-ginpō.

Zoarchias neglectus Tanaka, Annot. Zool. Jap., VII, pt. I, 1908, p. 24. Misaki, Sagami.

Distrib.—Misaki, Sagami.

Genus *Dictyosoma* Temminck & Schlegel.*Dictyosoma* Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 139.Type *Dictyosoma burgeri* Van der Hoeven.**1128. *Dictyosoma burgeri* Van der Hoeven.**

Dainan-ginpō; Kamisori-uwo.

Dictyosoma Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 139, pl. LXXIII, fig. 3. Nagasaki.*Dictyosoma burgeri* Van der Hoeven, Handbuch der Dierkunde, about 1850, p. 347.*Dictyosoma temmincki* Bleeker, Verh. Bat. Gen., XXV, Japan, p. 42. Nagasaki.

Distrib.—Hakodate to Nagasaki.

Genus *Opisthocentrus* Kner.*Opisthocentrus* Kner, Sitzber. Akad. Wiss. Wien, 1868, p. 49.Type *Centronotus (Opisthocentrus) quinquemaculatus* Kner.**1129. *Opisthocentrus ocellatus*. (Tilesius). (Fig. 362).**

Gazi; Gazu.

Ophidium ocellatum Tilesius, Mem. Ak. St. Petersb., II, 1811, p. 237. Kamchatka.*Gunnellus apus* Cuvier & Valenciennes, Hist. Nat. Poiss., XIV, 1839, p. 426. After Tilesius.*Centronotus (Opisthocentrus) quinquemaculatus* Kner, Sitzber. Akad. Wiss. Wien, 1868, p. 48, pl. VII, fig. 20. "Pingang" (doubtless from Decastris Bay).*Opisthocentrus reticulatus* Steindachner, Ichth. Beitr., X, 1881, p. 11, pl. V, fig. 2. Gulf of Strielok.

Blenniophidium petropauli Boulenger, Proc. Zool. Soc. Lond., 1892, p. 584, with plate. Petropaulski.

Opisthocentrus tenuis Bean & Bean, Proc. U. S. Nat. Mus., 1897, p. 463, pl. XXXV. Volcano Bay ; Port Mororan, Japan.

Distrib.—Hakodate ; Aomori ; Mororan ; Otaru ; Petropaulsky ; Chipesani ; Lake Busse ; Lososei Bay, Saghalien.

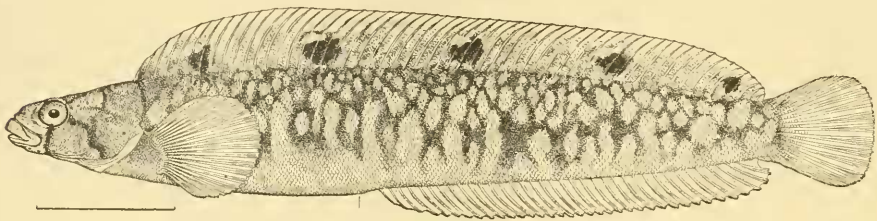


Fig. 362.

1130. *Opisthocentrus zonope* Jordan & Snyder. (Fig. 363).

Oki-kazunagi.

Opisthocentrus zonope Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 485, fig. 21. Mororan ; Otaru.

Distrib.—Mororan ; Otaru.

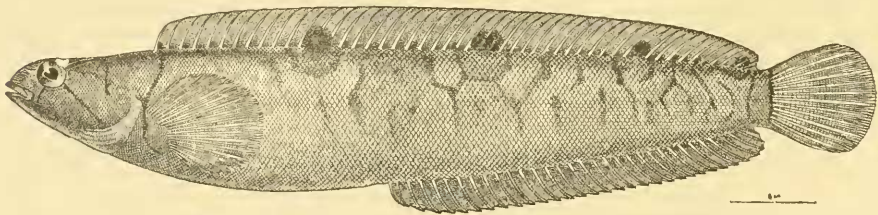


Fig. 363.

Genus *Abryois* Jordan & Snyder.

Abryois Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 486.

Type *Abryois azumæ* Jordan & Snyder.

1131. *Abryois azumæ* Jordan & Snyder, (Fig. 364).

Azuma-kazunagi.

Abryois azumæ Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 486, fig. 22. Mororan.

Distrib.—Mororan ; Otaru.

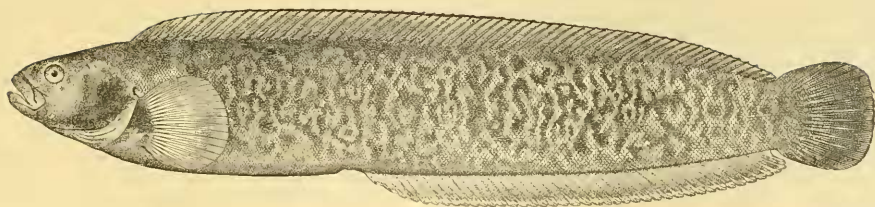


Fig. 364.

Genus Pholidapus Bean & Bean.

Pholidapus Bean & Bean, Proc. U. S. Nat. Mus., 1896, p. 389.

Type *Pholidapus grebnitzkii* Bean & Bean.

1132. Pholidapus dybowskii (Steindachner).

Mororan-gazi.

Centronotus dybowskii Steindachner, Ichth. Beitr., IX, 1880, p. 22. Gulf of Strielok, near Vladivostok.

Pholidapus grebnitzkii Bean & Bean, Proc. U. S. Nat. Mus., 1896, p. 390, pl. XXXIV. Volcano Bay, Japan.

Distrib.—Ochotsk Sea ; Volcano Bay.

Genus Ernogrammus Jordan & Evermann.

Ernogrammus Jordan & Evermann, Fish N. and M. Amer., III, 1898, p. 2441.

Trigrammus Gratzianow, Trd. Otd. Ichth., 1907, p. 4. *Ernogrammus storoski* Schmidt).

Type *Stichæus cuneagrammus* Kner.

1133. Ernogrammus hexagrammus (Temminck & Schlegel). (Fig. 365).

Musuji-gazi.

Stichæus hexagrammus Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 136, pl. LXXIII, fig. 1. Nagasaki.

Distrib.—Hakodate ; Otaru ; Nagasaki.

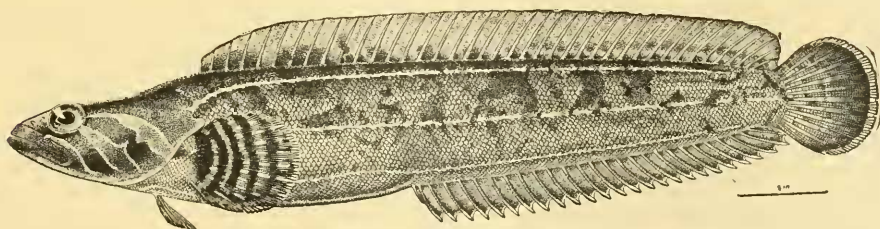


Fig. 365.

1134. *Ernogrammus enneagrammus* (Kner).

Okotsuku-gazi.

Stichæus enneagrammus Kner, Sitzber. Akad. Wiss. Wien, 1868, p. 16, pl. VI, fig. 19. Decastis Bay.

Distrib.—Ochotsk Sea ; Decastis Bay.

1135. *Ernogrammus epallax* Jordan & Snyder. (Fig. 366).

Ame-gazi.

Ernogrammus epallax Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 491, fig. 24. Otaru.

Distrib.—Otaru.

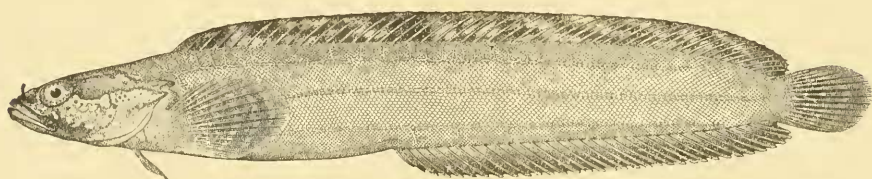


Fig. 366.

1136. *Ernogrammus storoshi* Schmidt.

Ernogrammus storoshi Schmidt, Pisc. Mar. Orient., 1904, p. 193. Eastern shore Saghalien, Cape Terpenic.

Distrib.—Saghalien.

Genus *Ozorth* Jordan & Evermann.

Ozorth Jordan & Evermann, Fish. N. and M. Amer., III, 1898, p. 2441.

Type *Ozorth hexagramma* Jordan & Evermann (not of Temminck & Schlegel) = *Stichæus dictyogrammus* Herzenstein.

1137. *Ozorth dictyogramma* (Herzenstein). (Fig. 367).

Yezo-gazi.

Stichæus dictyogrammus Herzenstein, Mélanges Biol., 1890, p. 121. Hakodate.
Stichæus hexagrammus Kner, Sitzber. Akad. Wiss. Wien, 1868, p. 45.

Decastis Bay, not of Temminck & Schlegel.

Distrib.—Hakodate ; Nemuro ; Same.

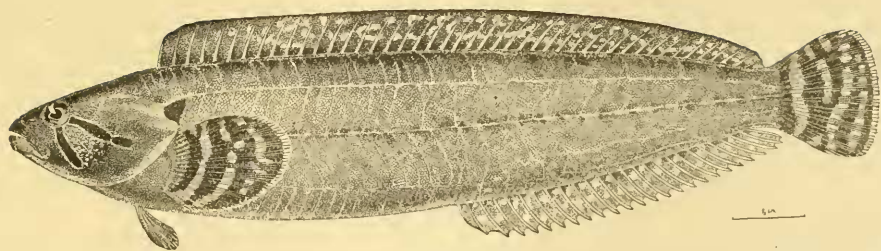


Fig. 367.

1138. *Ozorthene nevelskoi* Schmidt.

Ozorthene nevelskoi Schmidt, Pisc. Mar. Orient., 1904, p. 194. Near De Kastri Bay; near Cape Belingsgauzen.

Genus *Stichæopsis* Kner & Steindachner.

Stichæopsis Kner & Steindachner, Sitzber. Akad. Wiss. Wien, 1870, p. 21.

Type *Stichæopsis nana* Kner & Steindachner.

1139. *Stichæopsis nana* Kner & Steindachner.

Stichæopsis nana Kner & Steindachner, Sitzber. Akad. Wiss. Wien, 1870, p. 21. Decastris Bay.

Distrib.—Decastris Bay.

Genus *Stichæus* Reinhardt.

Stichæus Reinhardt, Dansk. Vidensk. Natur. og. Math. Afhandl., 1837, p. 109.

Type *Blennius punctatus* Fabricius.

1140. *Stichæus nozawæ* Jordan & Snyder. (Fig. 368).

Taue-gazi.

Stichæus nozawæ Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 496, fig. 26. Otaru.

Distrib.—Otaru, Hokkaidō.

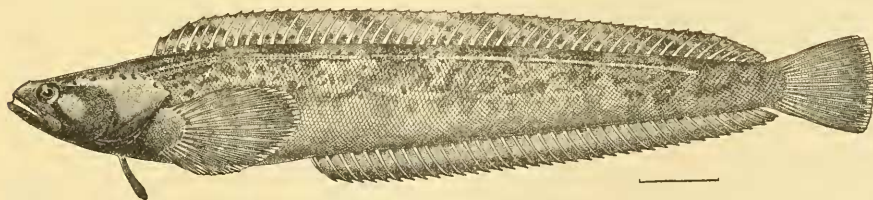


Fig. 368.

Genus *Dinogunellus* Herzenstein.*Dinogunellus* Herzenstein, *Mélanges Biologiques*, 1890, p. 121.Type *Stichæus grigorjewi* Herzenstein.**1141. *Dinogunellus grigorjewi* (Herzenstein). (Fig. 369).**

Nagazuka.

Stichæus grigorjewi Herzenstein, *Mélanges Biologiques*, 1890, p. 119. "Mori on Volcano Bay" (probably Mororan).

Distrib.—Volcano Bay ; Hakodate ; Mito, near Tōkyō ; Seraroko, Saghalien.

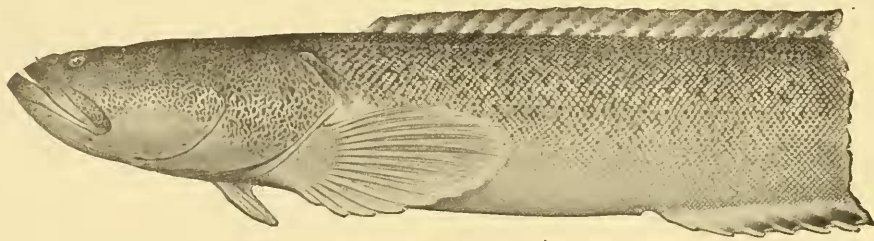


Fig. 369.

Genus *Leptoclinus* Gill.*Ctenodon* Nilsson, *Skandinav. Faun.*, IV, 1853, p. 190 (*Clinus maculatus* Fries, name three times preoccupied).*Leptoclinus* Gill, *Proc. Ac. Nat. Sci. Phila.*, 1864, p. 209.Type *Lumpenus aculeatus* Reinhardt.**1142. *Leptoclinus maculatus* (Fries).***Clinus maculatus* Fries, *Kgl. Vet. Ak. Handl.*, 1837, p. 49. Bohüslän, Sweden.

Distrib.—Bering Sea to Spitzbergen, south to the Aleutian Islands, and the coasts of Sweden and Norway.

Genus *Lumpenus* Reinhardt.*Lumpenus* Reinhardt, *Dansk. Vidensk. Selsk. Natur.*, VI, 1837, p. 110.Type *Blennius lumpenus* Fabricius (not of Linnaeus) = *Gunnellus fabricii* Cuvier & Valenciennes.**1143. *Lumpenus anguillaris* (Pallas).**

Unagi-gazi.

Blennius anguillaris Pallas, *Zoogr. Rosso-Asiat.*, II, 1811, p. 176. Kamchatka and Aleutian Is.

Distrib.—San Francisco to Alaska, northward to Sitka and Unalaska ; Kamchatka ; Tarumai, near Mororan.

1144. *Lumpenus fowleri* Jordan & Snyder. (Fig. 370).

Nuime-gazi.

Lumpenus fowleri Jordan & Snyder, Proc. U. S. Nat. Mus., XXV, 1902, p. 500, fig. 28. Kushiro, Hokkaidō.

Distrib.—Kushiro ; ? Nemuro ; ? Hakodate.

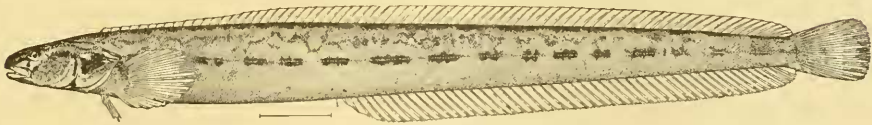


Fig. 370.

Family ANARHICHADIDÆ.

Genus Anarhichas (Artedi) Linnæus.

Anarhichas Artedi, Genera, 1738, p. 23.

Anarhichas Linnæus, Syst. Nat., 10th ed., 1758, p. 247.

Type *Anarhichas lupus* Linnæus.

1145. *Anarhichas fasciatus* Bleeker.

Ōkami-uwo.

Anarhichas fasciatus Bleeker, Nederl. Tyds., IV, 1873, p. 151. China.

Distrib.—China ; Mombetsu, Prov. Iburi.

1146. *Anarhichas lepturus* Bean.

Kyoku-ōkami-uwo.

Anarhichas lepturus Bean, Proc. U. S. Nat. Mus., II, 1879, p. 212. St. Michaels, Alaska.

Distrib.—Coasts of Alaska, south to Vancouver Island ; Lososei Bay, Saghalien.

Family XIPHASIIDÆ.

Genus Xiphasia Swainson.

Xiphasia Swainson, Classn. Fishes, II, 1839, p. 259.

Type *Xiphasia setifer* Swainson.

1147. *Xiphasia setifer* Swainson.

Unagi-ginpō.

Xiphasia setifer Swainson, Classn. Fishes, II, 1839, p. 259.

Distrib.—Coromandel coast of India ; New South Wales ; Idzu ; Suruga Bay.

Family CONGROGADIDÆ.**Genus Congrogadus** Günther.*Machærum* Richardson, Ann. Mag. Nat. Hist., XII, 1843, p. 175 (*subducens*)
(name preoccupied in Diptera, 1831).*Congrogadus* Günther, Cat. Fish., IV, 1862, p. 389.*Hierichthys* Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1903, p. 744.
(*encryptes*).Type *Machærum subducens* Richardson.1148. *Congrogadus encryptes* (Jordan & Fowler).

Sennin-gazi.

? *Machærum subducens* Richardson, Ann. Mag. Nat. Hist., XII, 1843, p. 175,
pl. 6. West Australia.*Hierichthys encryptes* Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1903,
p. 744, fig. 1. Miyakoshima, Riu Kiu Islands.Distrib.—Okinose, Sagami (Franz) and Riu Kiu Islands ; perhaps the same as *C.*
subducens from Australia.**Family ZYCODIDÆ.****Genus Enchelyopus** Gronow.*Enchelyopus* Klein, Ichthyologia, Missus, IV, 1747, p. 52. (Nonbinomial. Not of
Bloch & Schneider = *Rhinonemus* Gill).*Enchelyopus* Gronow, Zoophylacia Gronovii, I, 1763, p. 77.*Zoarces* Cuvier, Règne Anim., 2d ed., II, 1829, p. 175 (*viviparus*).Type *Blennius viviparus* Linnæus.1149. *Enchelyopus elongatus* (Kner).

Naga-gazi.

Zoarces elongatus Kner, Sitzungsber. Akad. Wiss. Wien, 1868, p. 52, pl. VII,
fig. 2. Ochotsk Sea.

Distrib.—Iwanai, Shiribeshi ; Hakodate ; Kurile Is. ; Lososei Bay, Saghalien.

1150. *Enchelyopus gillii* (Jordan & Starks).**Kō-rai-gazi.**

Zoarcas gillii Jordan & Starks, Proc. U. S. Nat. Mus., XXVIII, 1905, p. 212, fig. 11, Fusan, Korea.

Distrib.—Fusan, Korea ; Iwanai, Shiribeshi.

Genus *Lycodes* Reinhardt.

Lycodes Reinhardt, Kngl. Dansk. Vidensk. Selsk. Naturw., VII, 1838, p. 153.

Type *Lycodes vahlii* Reinhardt.

1151. *Lycodes perspicillum* Krøyer.**Mayu-gazi.**

Lycodes perspicillum Krøyer, Dansk. Vidensk. Selsk. Afhandl., XI, 1845, p. 233. Greenland.

Distrib.—Greenland ; Chipesani, Saghalien.

Genus *Krusensterniella* Schmidt.

Krusensterniella Schmidt, Pisc. Mar. Orient., 1904, p. 197.

Type *Krusensterniella notabilis* Schmidt.

1152. *Krusensterniella notabilis* Schmidt.**Hare-gazi.**

Krusensterniella notabilis Schmidt, Pisc. Mar. Orient., 1904, p. 198, fig. 12. Bellingsgauzen ; Papov.

Genus *Lycenchelys* Gill.

Lycenchelys Gill, Proc. Ac. Nat. Sci. Phila., 1884, p. 180.

Type *Lycodes muræna* Collett.

1153. *Lycenchelys pæcilimon* Jordan & Fowler. (Fig. 371).**Sarasa-gazi.**

Lycenchelys pæcilimon Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1902, p. 748, fig. 2. Off Kinkwazan in Matsushima Bay.

Distrib.—Off Kinkwazan in Matsushima Bay.

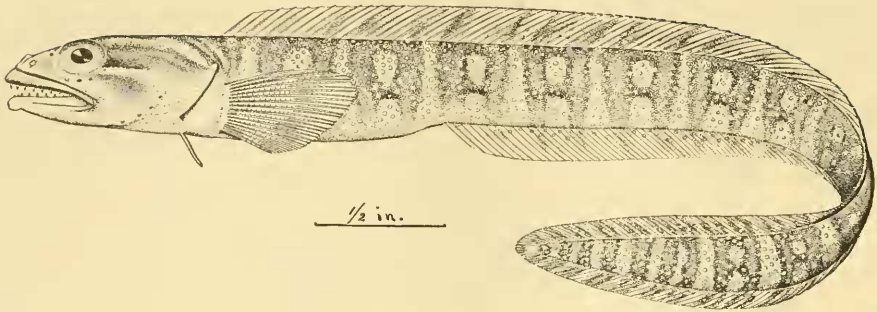


Fig. 371.

1154. *Lycenchelys brachyrhynchus* Schmidt.**Hiziri-gazi.**

Lycenchelys brachyrhynchus Schmidt, Pisc. Mar. Orient., 1904, p. 201, tab. VI, fig. 3. Gulf of Aniwa ; Cape St. Ekatarina.

Distrib.—Gulf of Aniwa ; Cape St. Ekatarina.

1155. *Lycenchelys fasciatus* Schmidt.**Moyō-gazi.**

Lycenchelys fasciatus Schmidt, Pisc. Mar. Orient., 1904, p. 203, tab. VI, fig. 2. Gulf of Aniwa.

Distrib.—Gulf of Aniwa.

Genus *Hadropareia* Schmidt.

Hadropareia Schmidt, Pisc. Mar. Orient., 1904, p. 204.

Type *Hadropareia middendorffii* Schmidt.

1156. *Hadropareia middendorffii* Schmidt.**Iwa-genge.**

Hadropareia middendorffii Schmidt, Pisc. Mar. Orient., 1904, p. 205, fig. 14. Shantar Is.

Distrib.—Shantar Is., Siberia.

Genus *Bothrocara* Bean.

Bothrocara Bean, Proc. U. S. Nat. Mus., 1890, p. 38.

Type *Bothrocara mollis* Bean.

1157. *Bothrocara zesta* Jordan & Fowler.**Shiro-genge. (Ushitsu, Noto).**

Bothrocara zesta Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1902, p. 749, fig. 3. Sagami Bay.

Distrib.—Sagami Bay.

Family CARAPIDÆ.**Genus Carapus Rafinesque.**

Carapus Rafinesque, Indice Ittiol. Siciliana, 1810, p. 57.

Fierasfer Cuvier, Règne Animal, 1st ed., II, 1817, p. 2393 (*Fierasfer imberbis* Cuvier = *Gymnotus acus* Brünnich).

Type *Gymnotus acus* Brünnich.

1158. *Carapus kogoshimanus* (Steindachner & Döderlein).

Kakure-uwo.

Fierasfer kogoshimanus Steindachner & Döderlein, Fische Japans, IV, 1887, p. 27. Kagoshima.

Distrib.—Kagoshima ; Misaki, Sagami ; Bōshū.

1159. *Carapus sagamianus* Tanaka.

Komon-kakure-uwo.

Carapus sagamianus Tanaka, Annot. Zool. Jap., VII, pt. I, Dec. 1908, p. 40. Sagami Sea.

Distrib.—Sagami Sea ; Bōshū.

Family OPHIDIIDÆ.**Genus Otophidium Gill.**

Otophidium Gill, in Jordan, Cat. Fish. North Amer., 1885, p. 126.

Type *Genypterus omostigma* Jordan & Gilbert.

1160. *Otophidium asiro* Jordan & Fowler. (Fig. 372).

Ashiro.

Otophidium asiro Jordan & Fowler, Proc. U.S. Nat. Mus., XXV, 1902, p. 752, fig. 4. Misaki, Sagami.

Distrib.—Misaki, Sagami.

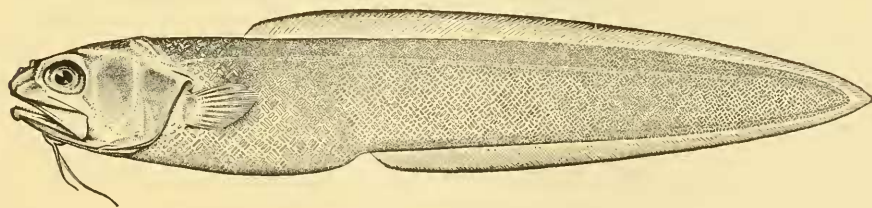


Fig. 372.

Family AMMODYTIDÆ.**Genus Embolichthys** Jordan & Evermann.

Embolichthys Jordan & Evermann, Proc. U. S. Nat. Mus., XXVI, 1903, p. 693.

Type *Bleckeria mitsukurii* Jordan & Evermann.

1161. Embolichthys mitsukurii (Jordan & Evermann). (Fig. 373).

Taiwan-ikanago.

Bleckeria mitsukurii Jordan & Evermann, Proc. U. S. Nat. Mus., XXIV, 1902, p. 333. Giran, Formosa.

Distrib.—Kagoshima to Formosa.

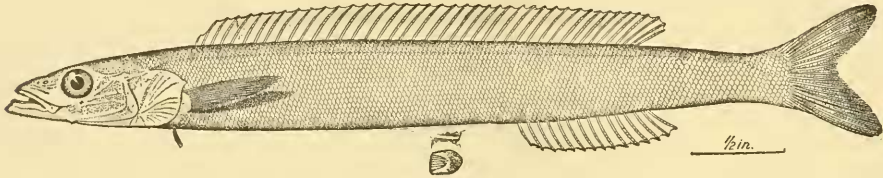


Fig. 373.

Genus Ammodytes (Artedi) Linnæus.

Ammodytes Artedi, Genera Piscium, 1738, p. 16.

Ammodytes Linnæus, Syst. Nat., 10th ed., 1758, p. 247.

Type *Ammodytes tobianus* Linnæus.

1162. Ammodytes personatus Girard. (Fig. 374).

Ikanago.

Ammodytes personatus Girard, Proc. Ac. Nat. Sci. Phila., 1856, p. 137. Cape Flattery.

Distrib.—Coasts of the north Pacific, on both shores. South from Alaska and Siberia to the Inland Sea of Japan, and to Monterey Bay.

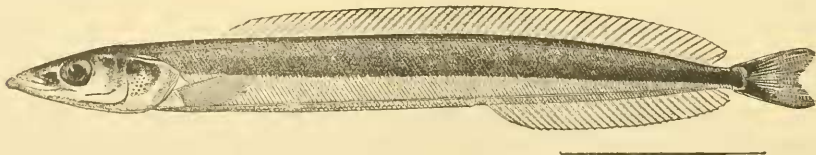


Fig. 374.

Genus Hypoptylchus Steindachner.

Hypoptylchus Steindachner, Ichth. Beitr., IX, 1880, p. 20.

Type *Hypoptylchus dybowskii* Steindachner.

1163. *Hypoptychus dybowskii* Steindachner.

Shiwa-ikanago.

Hypoptychus dybowskii Steindachner, Ichth. Beitr., X, 1880, p. 20, pl. II, fig.

3. Bay of Strielok, Japan Sea (near Vladivostok).

Distrib.—Japan Sea; Bay of Strielok; Bays of Patroke, Mauka, Aniwa, and Corsakou.

1164. *Hypoptychus steindachneri* Franz.

Ai-ikanago.

Hypoptychus steindachneri Franz, Abh. Bayer. Akad., 1910, p. 8, taf. v, fig.

28. Fukuura.

Distrib.—Fukuura.

Family BROTLIDÆ.**Genus Brotula Cuvier.***Brotula* Cuvier, Règne, Animal, 2d ed., II, 1829, p. 296.Type *Enchelyopus barlatus* Bloch & Schneider.**1165. *Brotula multibarbata* Temminck & Schlegel.**

Itachi-uwo; Umi-namadzu.

Brotula multibarbata Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p.

251, pl. III, fig. 2. Nagasaki.

Brotula japonica Steindachner & Döderlein, Fische Japans, IV, 1887, p. 24.

Tōkyō.

Distrib.—Tōkyō to Formosa; Celebes; Amboina; Buru.

Genus *Myxocephalus* Steindachner & Döderlein.*Myxocephalus* Steindachner & Döderlein, Fische Japans, IV, 1887, p. 25.Type *Myxocephalus japonicus* Steindachner & Döderlein.**1166. *Myxocephalus japonicus* Steindachner & Döderlein. (Fig. 375).**

Bora-itachi-uwo.

Myxocephalus japonicus Steindachner & Döderlein, Fische Japans, IV, 1887,

p. 25. Off Tōkyō.

Distrib.—Sagami Sea.

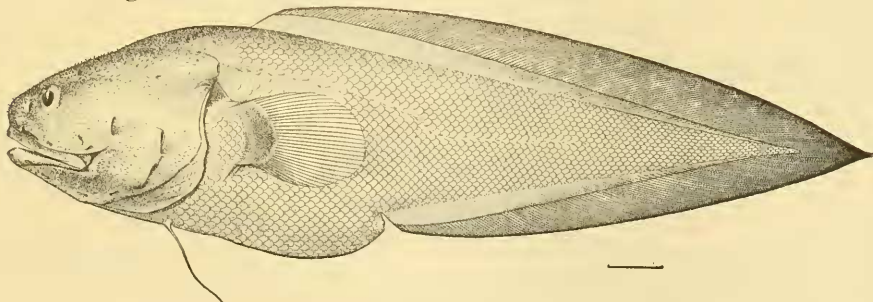


Fig. 375.

Genus Sirembo Bleeker.

Sirembo Bleeker, Act. Soc. Soc. Indo. Nederl., III, Japan, IV, 1858, p. 22.

Brotella Kaup, Wiegmann's Archiv, 1858, p. 22 (*Brotula imberbis* Temminck & Schlegel).

Type *Brotula imberbis* Temminck & Schlegel.

1167. Sirembo imberbis (Temminck & Schlegel).

Umidōjō.

Brotula imberbis Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 253, pl. CXI, fig. 3. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

Genus Bassogigas Gill.

Bassogigas Gill, in Good & Bean, Oceanic Ichthyology, 1895, p. 329.

Type *Sirembo grandis* Günther.

1168. Bassogigas grandis (Günther).

Soko-Bōzu.

Sirembo grandis Günther, Ann. Mag. Nat. Hist., XX, 1877, p. 437. Near Yokohama in deep water.

Distrib.—South of Tōkyō ; Sagami Sea.

Genus Hoplobrotula Gill.

Hoplobrotula Gill, Proc. Ac. Nat. Sci. Phila., 1863, p. 253.

Type *Brotula armata* Temminck & Schlegel.

1169. Hoplobrotula armata (Temminck & Schlegel).

Yoroi-itachi-uwo.

Brotula armata Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 255. Nagasaki.

Distrib.—Nagasaki ; Tōkyō ; Nanaura in Bōshū.

Genus Watassea Jordan & Snyder.

Watassea Jordan & Snyder, Proc. U.S. Nat. Mus., XXIII, 1901, p. 765.

Type *Watassea sivicola* Jordan & Snyder.

1170. Watassea sivicola Jordan & Snyder. (Fig. 376).

Shiwo-itachi-uwo.

Watassea sivicola Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII, 1901, p. 765, pl. XXXVII. Misaki, Sagami.

Distrib.—Misaki, Sagami ; Toyama Bay.

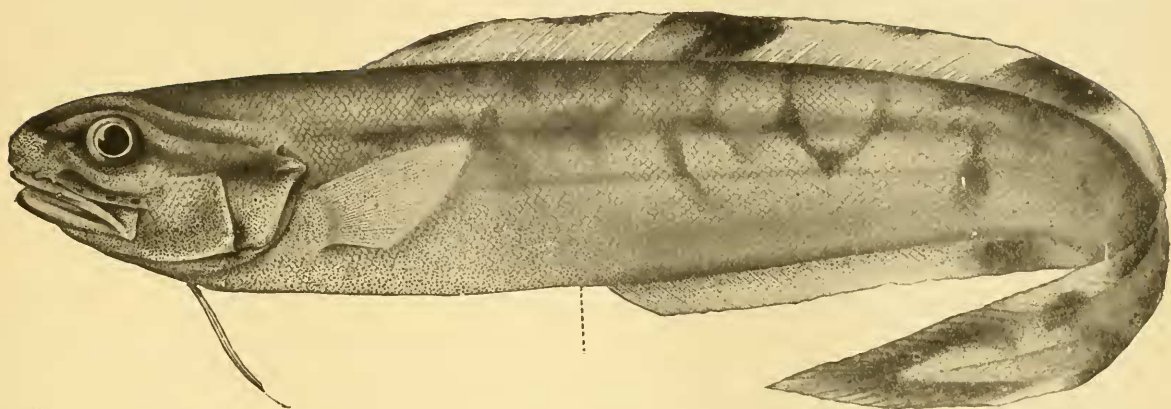


Fig. 376.

Genus *Porogadus* Good & Bean.

Porogadus Good & Bean, Proc. U. S. Nat. Mus., VIII, 1885, p. 602.

Type *Porogadus miles* Good & Bean.

1171. *Porogadus güntheri* Jordan & Fowler. (Fig. 377).

Tara-itachi-uwo.

Porogadus güntheri Jordan & Fowler, Proc. U. S. Nat. Mus., XXV, 1902, p. 762, fig. 6. Sagami Bay.

Distrib.—Sagami Bay.

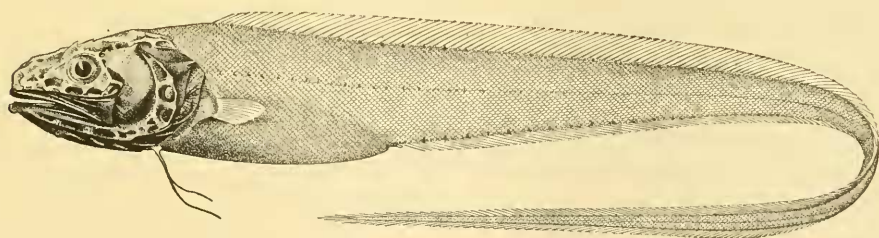


Fig. 377.

Genus *Pteridonus* Günther.

Pteridonus Günther, Deep Sea Fishes Challenger, 1887, p. 106.

Type *Pteridonus quinquarius* Günther.

1172. *Pterodonus quinquarius* Günther.**Momo-tachi-uwo.***Pterodonus quinquarius* Günther, Deep Sea Fishes Challenger, 1887, p. 106.
Deep Sea of Japan.

Distrib.—Deep Sea of Japan.

Genus *Bregmaceros* Thompson.*Bregmaceros* Thompson, in Charlesworth's Mag. Nat. Hist., IV, 1840, p. 184
Type *Bregmaceros maclellandii* Thompson.**1173. *Bregmaceros japonicus* (Tanaka).****Sai-uwo.***Bregmaceros atlanticus japonicus* Tanaka, Annot. Zool. Jap., VII, pt. 1, Dec.
1908, p. 42, with fig. Sagami Sea.

Distrib.—Sagami Sea.

Family GADIDÆ.**Genus *Gadus* (Artedi) Linnæus.***Gadus* Artedi.*Gadus* Linnæus, Syts. Nat., 10th ed., 1758, p. 251. After Artedi.*Cephus* Swainson, Nat. Hist. Class'n Fishes, II, 1839, p. 300 (*Gadus macrocephalus* Tilesius).Type *Gadus morrhua* Linnæus.**1174. *Gadus macrocephalus* Tilesius.****Tara ; Madara.***Gadus macrocephalus* Tilesius, Mém. Acad. Sci. St. Petersb., II, 1810, p. 360.
Kamchatka.*Gadus pygmæus* Pallas, Zoogr. Rosso.-Asiat., III, 1811. Kamchatka.

Distrib.—Bering Sea ; Kurils ; Robben ; Kamchatka ; Hokkaidō ; Saghalien.

Genus *Theragra* Lucas.*Theragra* Lucas, Jordan & Gilbert, Rept. Fur Seal Invest., 1896 (1898).Type *Gadus chalcogrammus* Pallas.**1175. *Theragra chalcogramma* (Pallas).****Suketō-dara.***Gadus chalcogrammus* Pallas, Zoogr. Rosso.-Asiat., III, 1811, p. 198. Kamchatka.

Distrib.—Bering Sea ; Sitka ; Kurils ; Robben ; Hokkaidō ; Toyama Bay ; Saghalien.

Genus Pollachius Nilsson.

Pollachius Nilsson, in Bonaparte, Catalogo Metodico Pesci Europ., 1846, p. 45.

Type *Gadus pollachius* Linnæus.

1176. Pollachius brandti (Hilgrndorf).

Gadus brandti Hilgendorf, Mitth. Deutsch. Ges. Natur.-Volkerkunde Ostasiens,

I, 1875, pt. 7, p. 39.

Distrib.—Southern Japan.

1177. Pollachius minor (Döderlein).

Gadus minor Döderlein, Fische Japans, IV, 1887, p. 277. Tōkyō.

Distrib.—Tōkyō.

Genus Eleginus Fischer.

Eleginus Fischer, Mem. Soc. Nat. Moscow, V, 4, 2d ed., 1813, pp. 252-257.

Tilesia Swainson, Nat. Hist. Class'n Fishes, II, 1839, p. 300 (*Gadus gracilis*

Tilesius; the generic name *Tilesia* preoccupied).

Pleurogadus Bean, in Jordan, Cat. Fish. N. A., 1885, p. 130 (*Gadus gracilis*

Tilesius; substitute for *Tilesia* preoccupied).

Type *Gadus navaga* Kölreuter.

1178. Eleginus navaga (Kölreuter).

Gadus navaga Kölreuter, Nov. Comm. Ac. Petrop., XIV, 1770, p. 484, pl. 12.

Coast of northern Russia.

Gadus gracilis Tilesius, Mém. Ac. Imp. Petersb., II, 1810, p. 354. Kamchatka.

Gadus wachna Pallas, Zoogr. Rosso-Asiat., III, 1811, p. 182. Kamchatka.

Distrib.—Arctic shores of Asia and North America, south to Bering Sea;

Decastis Bay; Hokkaidō.

Genus Antimora Günther.

Antimora Günther, Ann. Mag. Nat. Hist., 1876, p. 2.

Type *Haloporphyrus rostratus* Günther.

1179. Antimora microlepis Bean.

Kanada-tara.

Antimora microlepis Bean, Proc. U. S. Nat. Mus., 1890, p. 38. Off Queen Charlotte Is.

Distrib.—Queen Charlotte Is., Aburatsubo, Sagami (Franz).

Genus Lepidion Swainson.

Lepidion Swainson, Nat. Hist. Classn. Anim., I, 1838, p. 318 and II, 1839, p. 300.

Haloporphyrus Günther, Cat. Fishes, IV, 1862, p. 358 (*lepidion*).

Type *Gadus lepidion* Risso.

1180. *Lepidion modestus* (Franz).

Kuro-dara.

Haloporphyrus modestus Franz, Abh. Bayer. Akad., 1910, p. 28, taf. IV, fig. 13. Yokohama.

1181. *Lepidion inosimæ* (Günther).

Soko-kuro-dara.

Haloporphyrus inosimæ Günther, Challenger Report, 1887, p. 92, pl. 20, fig. b. Enoshima.

Genus *Physiculus* Kaup.

Physiculus Kaup, Archiv für Naturgesch., 1858, p. 88.

Type *Physiculus dakwigkii* Kaup.

1182. *Physiculus japonicus* Hilgendorf.

Chigo-dara.

Physiculus japonicus Hilgendorf, Sitz. Naturf. Freunde, Berlin, 1879, p. 80. Japan.

Distrib.—Yokohama.

Genus *Lotella* Kaup.

Lotella Kaup, Archiv für Naturgesch., 1858, p. 88.

Type *Lotella schlegelii* Kaup.

1183. *Lotella phycis* (Temminck & Schlegel).

Iso-ainame.

Lota phycis Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 248, pl. CXI, fig. 1. Nagasaki.

Lotella schlegelii Kaup, in Wiegmann's Archiv., 1858, p. 88. Japan.

Distrib.—Tōkyō to Nagasaki.

1184. *Lotella maximowiczi* Herzenstein.

Yezo-iso-ainame.

Lottlla maximowiczi Herzenstein, Ann. Akad. Imp. Sci., 1896, p. 13. Hakodate.

Distrib.—Hakodate.

Genus *Gaidropsarus* Rafinesque.

Gaidropsarus Rafinesque, Indice d'Ittiol. Siciliana, 1810, p. 51.

Type *Gaidropsarus mustellaris*. = *Gadus tricirrat* Bloch.

1185. *Gaidropsarus pacificus* (Temminck & Schlegel).

Yamato-hige-dara.

Motella pacifica Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 249.
Nagasaki.

Distrib.—Nagasaki.

Family MACROURIDÆ.

Genus *Gadomus* Regan.

Gadomus Regan, Ann. Mag. Nat. Hist., 1903, p. 459.

Type *Bathygadus longifilis* Good & Bean.

1186. *Gadomus colletti* Jordan & Gilbert. (Fig. 378).

Kata-dara.

Gadomus colletti Jordan & Gilbert, Bull. U. S. Fish Comm., 1902 (August, 1904), p. 603, with fig. Suruga Bay.

Distrib.—Suruga Bay.

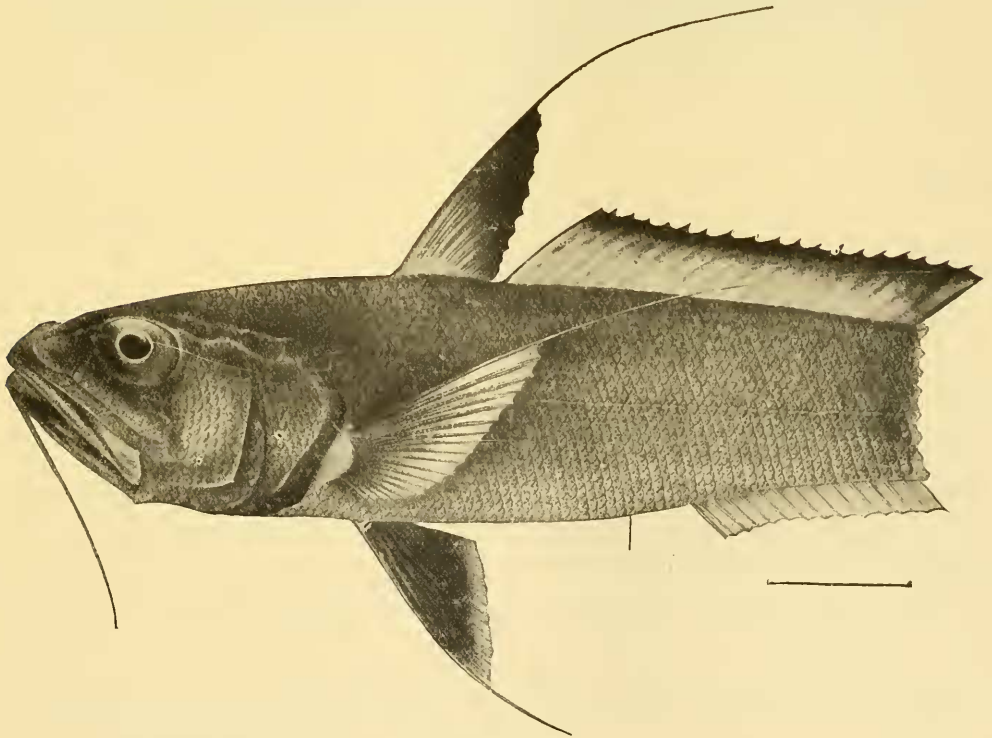


Fig. 378

Genus *Regania* Jordan.

Regania Jordan, Bull. U. S. Fish Comm., 1902 (August, 1904), p. 604.

Type *Regania nipponica* Jordan & Gilbert.

1187. *Regania nipponica* Jordan & Gilbert. (Fig. 379).

Tsukai-dara.

Regania nipponica Jordan & Gilbert, Bull. U. S. Fish Comm., 1902 (August, 1904), p. 605, with fig. Suruga Bay.

Distrib.—Suruga Bay.

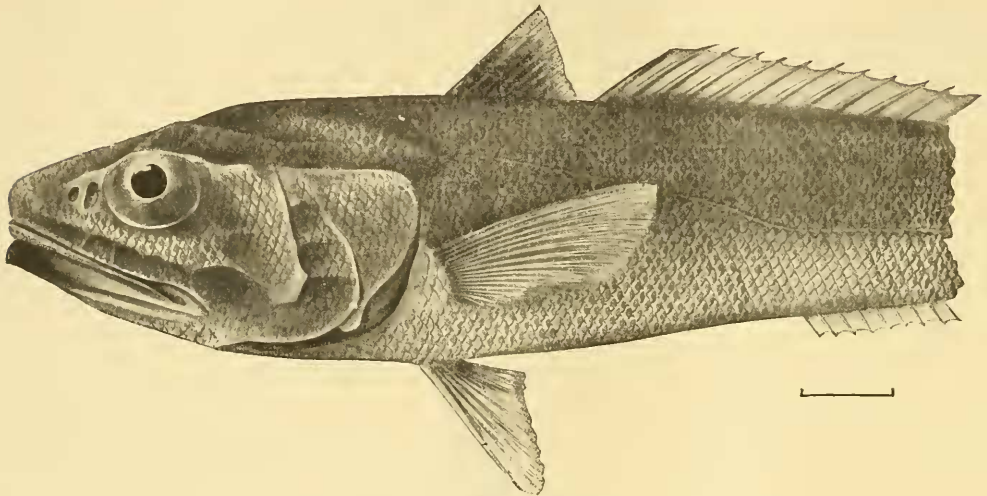


Fig. 379.

Genus *Melanobranchus* Regan.

Melanobranchus Regan, Ann. Mag. Nat. Hist., 1903, p. 459.

Type *Bathygadus melanobranchus* Vaillant.

1188. *Melanobranchus antrodes* Jordan & Gilbert. (Fig. 380).

Ana-dara.

Melanobranchus antrodes Jordan & Gilbert, Bull. U. S. Fish Comm., 1902 (August, 1904), p. 606, pl. 4, fig. 1. Sagami Bay.

Distrib.—Sagami Bay ; Suruga Bay.

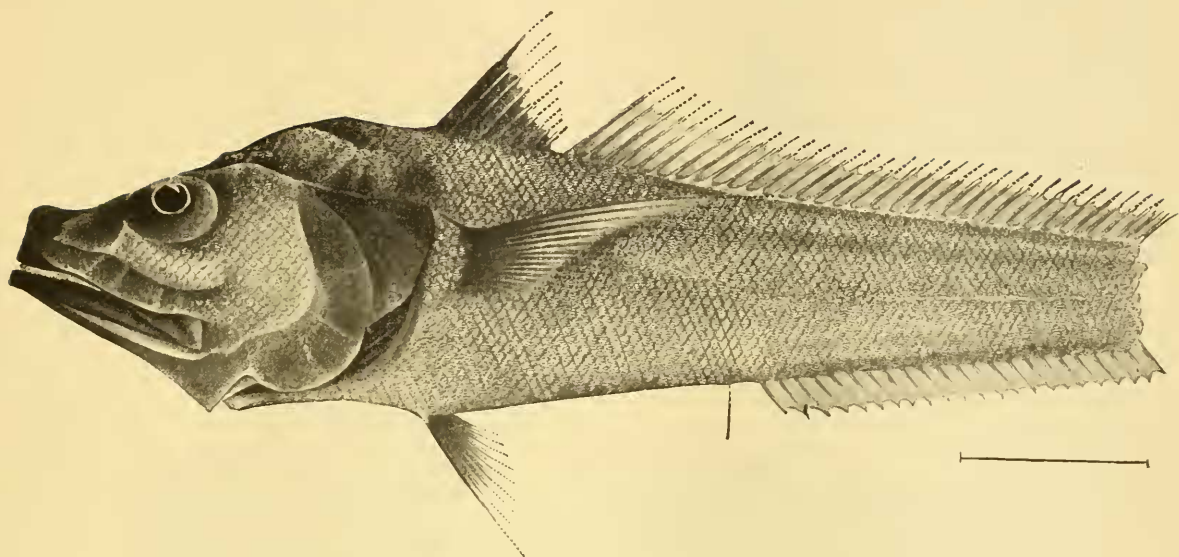


Fig. 380.

Genus Dolloa Jordan.

Moseleya Good & Bean, Oceanic Ichthyology, 1895, p. 417. (*Coryphænooides longifilis* Günther. The generic name *Moseleya* preoccupied).

Dolloa Jordan, American Naturalist, XXXIV, 1900, p. 897.

Type *Coryphænooides longifilis* Günther.

1189. Dolloa longifilis (Günther).

Himo-dara.

Goryphaenoides longifilis Günther, Ann. Mag. Nat. Hist., XXV, 1877, p. 439.
South of Tōkyō.

Distrib.—South of Tōkyō.

Genus Hymenocephalus Giglioli.

Hymenocephalus Giglioli, Pelagos, Genoa, 1884, p. 228.

Type *Hymenocephalus italicus* Giglioli.

1190. Hymenocephalus striatissimus Jordan & Gilbert. (Fig. 381).

Suji-dara.

Hymenocephalus striatissimus Jordan & Gilbert, Bull. U. S. Fish Comm., 1902
(August, 1904), p. 612, with fig. Suruga Bay.

Distrib.—Suruga Bay.

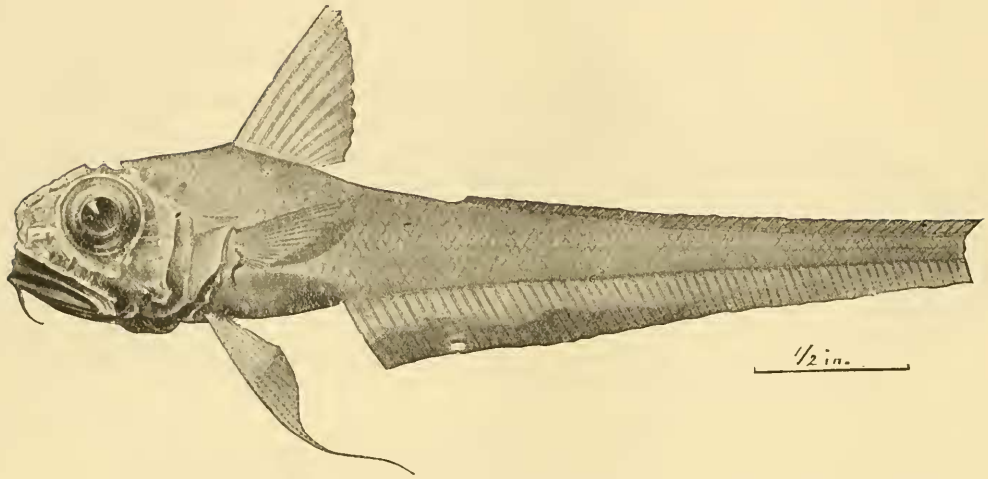


Fig. 381.

1191. *Hymenocephalus papyraceus* Jordan & Gilbert. (Fig. 382).

Kami-dara.

Hymenoccephalus papyraceus Jordan & Gilbert, Bull. U. S. Fish. Comm., 1902
(August, 1904), p. 614, with fig. Sagami Bay.

Distrib.—Sagami Bay.

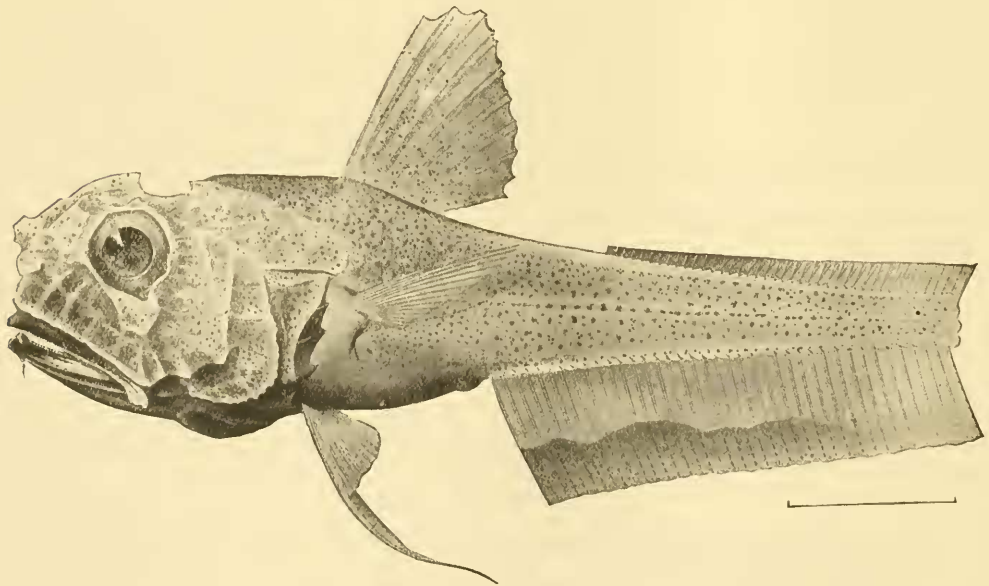


Fig. 382.

1192. *Hymenocephalus lethonemus* Jordan & Gilbert. (Fig. 383).**Ito-dara.**

Hymenocephalus lethonemus Jordan & Gilbert, Bull U. S. Fish Comm., 1902 (August, 1904), p. 615, with fig. Sagami Bay.

Distrib.—Sagami Bay; Tōkyō Market.

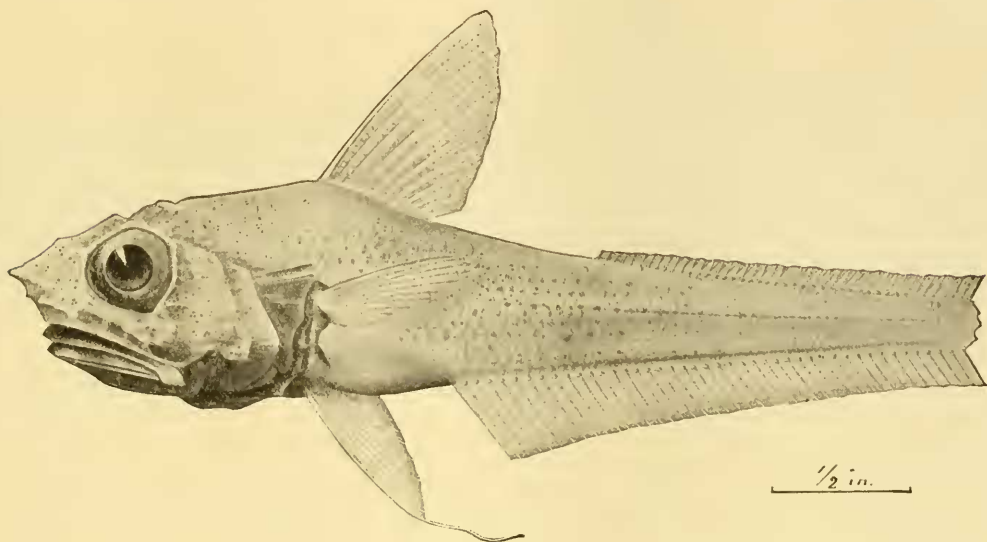


Fig. 383.

Genus *Nezumia* Jordan.

Nezumia Jordan, Bull. U. S. Fish. Comm., 1902 (August, 1904), p. 620.

Type *Nezumia condylura* Jordan & Gilbert.

1193. *Nezumia condylura* Jordan & Gilbert. (Fig. 384).**Nezumi-dara.**

Nezumia condylura Jordan & Gilbert, Bull. U. S. Fish Comm., 1902 (August, 1904), p. 620, pl. 4, fig. 2. Suruga Bay.

Distrib.—Sagami and Suruga Bays.

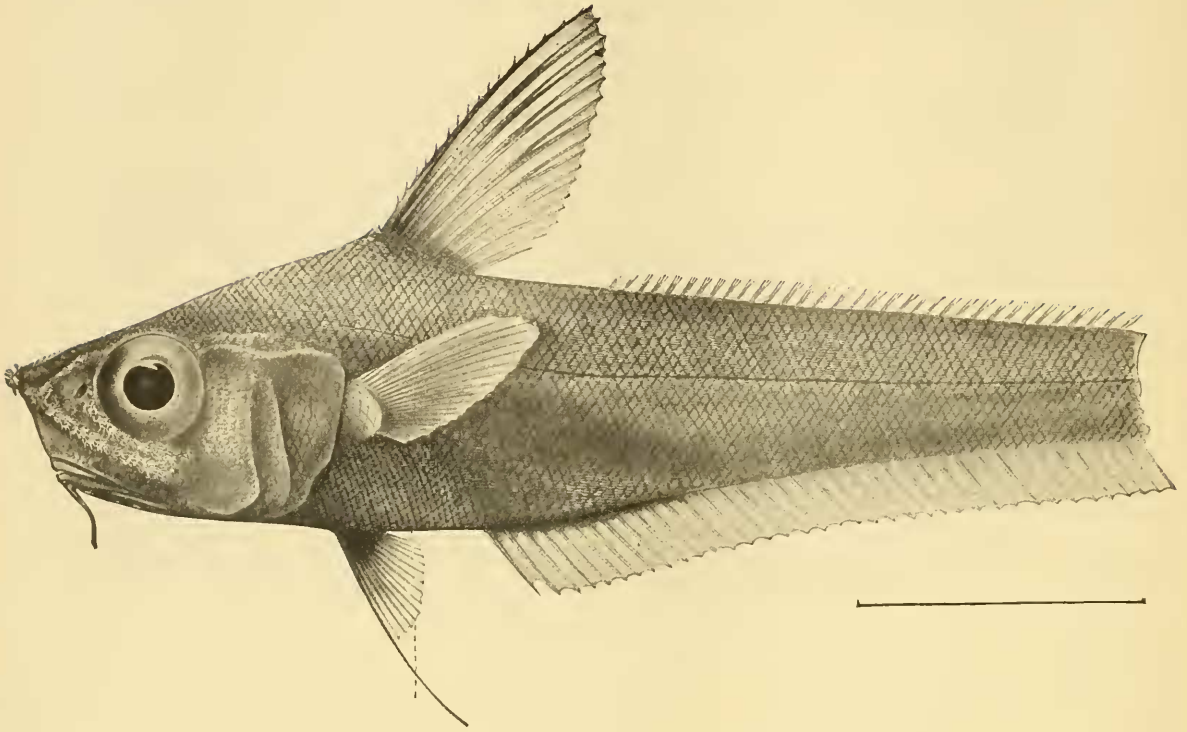


Fig. 384.

Genus *Abyssicola* Good & Bean.

Abyssicola Good & Bean, *Oceanic Ichthyology*, 1895, p. 417.

Type *Macrurus macrochir* Günther.

1194. *Abyssicola macrochir* (Günther).

Tenaga-dara.

Macrurus macrochir Günther, *Ann. Mag. Nat. Hist.*, 1877, XX, p. 438.

Hyalonema ground, off Enoshima, in Sagami Bay.

Distrib.—Sagami Bay.

Genus *Chalinura* Good & Bean.

Chalinura Good & Bean, *Bull. Mus. Comp. Zool.*, X, No. 5, 1883, p. 198.

Chalinurus Günther, *Challenger Report*, XXII, 1887, pp. 122, 144. Change in spelling.

Type *Chalinura simula* Good & Bean.

1195. *Chalinura liocephala* (Günther).

Hira-gashira-dara.

Macrurus liocephala Günther, Deep Sea Fishes, Challenger, 1887, p. 145, pl. XXXVIII, fig. a. Near Yokohama.

Distrib.—Yokohama.

Genus *Coryphænoides* Gunner.*Coryphænoides* Gunner, Trondhj. Selsk. Skrift., III, 1765, p. 50.*Branchiostegus* Rafinesque, Analyse de la Nature, 1810, p. 86 (substitute for *Coryphænoides*).Type *Coryphænoides rupestris* Gunner.1196. *Coryphænoides marginatus* Steindachner & Döderlein.

Heri-dara.

Coryphænoides marginatus Steindachner & Döderlein, Fische Japans, IV, 1887, p. 284. Tōkyō.

Distrib.—Tōkyō.

1197. *Coryphænoides misakius* Jordan & Gilbert. (Fig. 385).

Misaki-sokodara.

Coryphænoides misakius Jordan & Gilbert, Bull. U. S. Fish. Comm., 1902 (August, 1904), p. 611, with fig. Misaki, Sagami.

Distrib.—Sagami Bay.

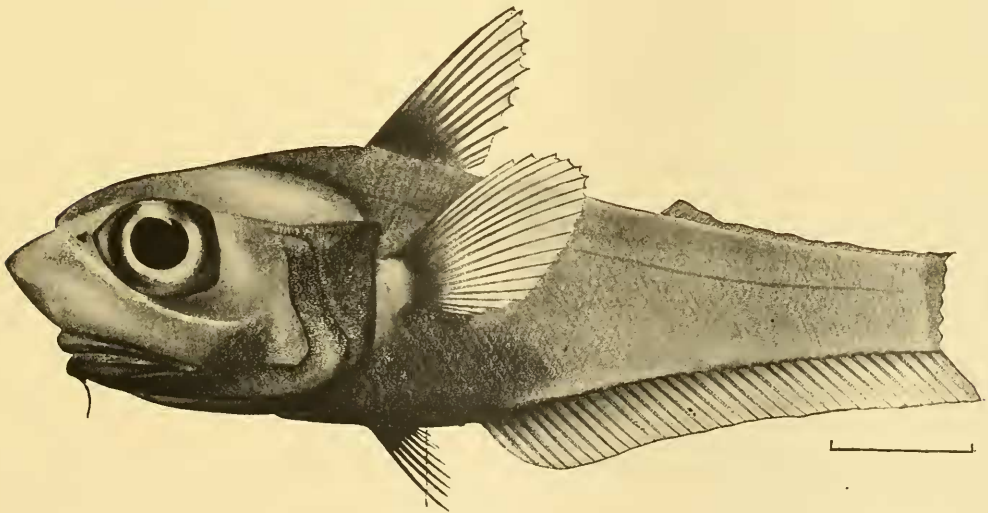


Fig: 385.

1198. *Coryphænoides garmani* Jordan & Gilbert. (Fig. 386).

Sagami-sokodara.

Coryphænoides garmani Jordan & Gilbert, Bull. U. S. Fish Comm., 1902 (August, 1904), p. 610, with fig. Sagami Sea.

Distrib.—Sagami and Suruga Bays.

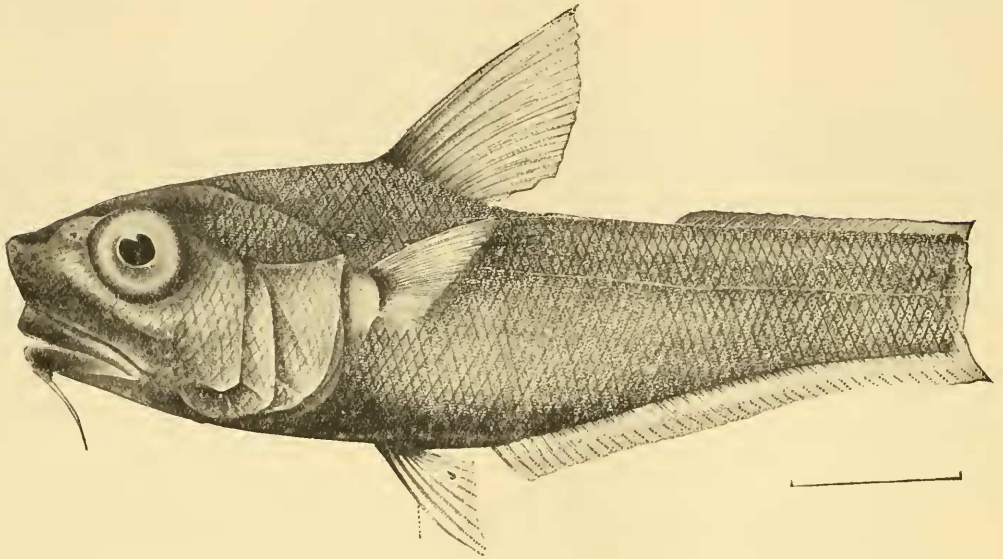


Fig. 386.

1199. *Coryphænoides altipinnis* Günther.

Hokake-dara.

Coryphænoides altipinnis Günther, Ann. Mag. Nat. Hist., XX, 1877, p. 439. South of Tōkyō.

Distrib.—South of Tōkyō.

1200. *Coryphænoides awæ* Jordan & Gilbert. (Fig. 387).

Bōshū-soko-dara.

Coryphænoides awæ Jordan & Gilbert, Bull. U. S. Fish Comm., 1902 (August, 1904), p. 608, with fig. Off Nanaura, Bōshū.

Distrib.—Off Bōshū.

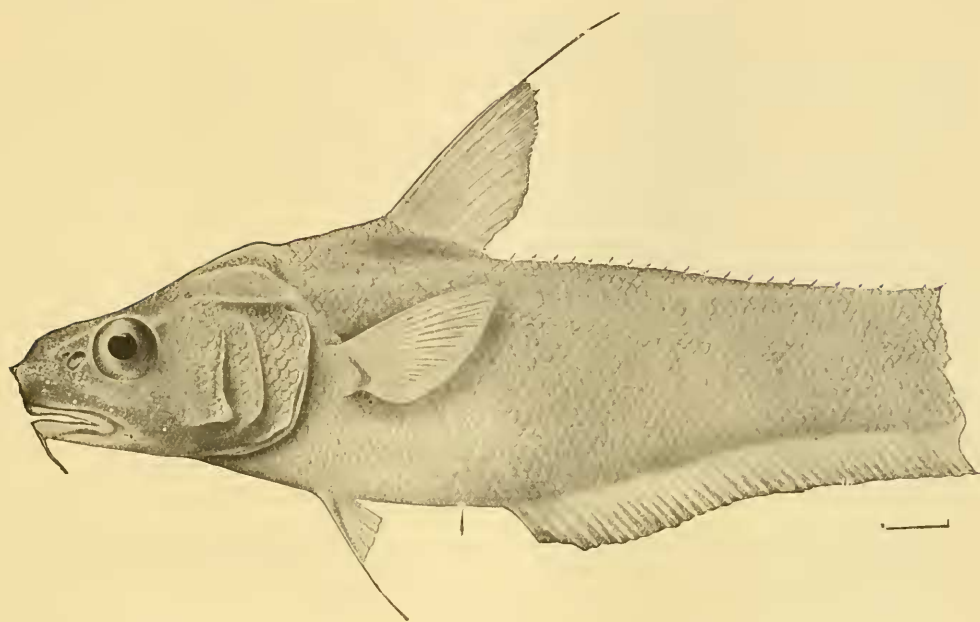


Fig. 387.

Genus *Macrourus* Bloch.

Macrourus Bloch, Ichth., V, 1787, p. 152.

Macrurus Günther, Cat. Fish., IV, 1862, p. 392. Corrected spelling.

Type *Macrurus rupestris* Günther (not of Gunner) = *Macrourus berglax* Lacépède.

1201. *Macrourus nasutus* (Günther).

Hana-naga-sokodara.

Coryphænoides nasutus Günther, Ann. Mag. Nat. Hist., XX, 1877, p. 440.

South of Tōkyō; off Enoshima.

Distrib.—Sagami Bay; off Idzu.

1202. *Macrourus asper* (Günther).

Zara-dara.

Coryphænoides asper Günther, Ann. Mag. Nat. Hist., XX, 1877, p. 440.

South of Japan.

Distrib.—South of Japan.

1203. *Macrourus rudis* (Günther).

Aka-sokodara.

Coryphænoides rudis Günther, Ann. Mag. Nat. Hist., II, 1878, p. 24. North Pacific.

Distrib.—Aburatsubo, Sagami (Franz).

Genus *Cælorhynchus* Giorna.

Cælorhynchus Giorna, Mém. Ac. Sci. Turin, XVI, 1803, p. 178 (“*Cælorhynche la ville*.”)

Oxymacrurus Bleeker, Versl. Med. Ak. Wetensk. Amsterd., 1874, p. 103
(*Macrurus japonicus* Temminck & Schlegel).

1204. *Cælorhynchus japonicus* (Temminck & Schlegel).

Hige or Tōjin (Misaki, Sagami).

Macrurus japonicus Temminck & Schlegel, Fauna Japonica, Poiss., 1846, p. 256, pl. CXII, fig. 2. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

1205. *Cælorhynchus parallelus* (Günther).

Soroi-hige.

Macrurus parallelus Günther, Ann. Mag. Nat. Hist., XX, 1877, p. 439.
Enoshima.

Distrib.—Enoshima.

1206. *Cælorhynchus tokiensis* (Steindachner & Döderlein).

Miyako-hige.

Macrurus tokiensis Steindachner & Döderlein, Fische Japans, IV, 1887, p. 283. Tōkyō.

Distrib.—Tōkyō.

1207. *Cælorhynchus anatirostris* Jordan & Gilbert. (Fig. 388).

Nezumi-hige.

Cælorhynchus anatirostris Jordan & Gilbert, Bull. U. S. Fish Comm., 1902
(August, 1904), p. 619, with fig. Misaki, Sagami.

Distrib.—Misaki, Sagami.

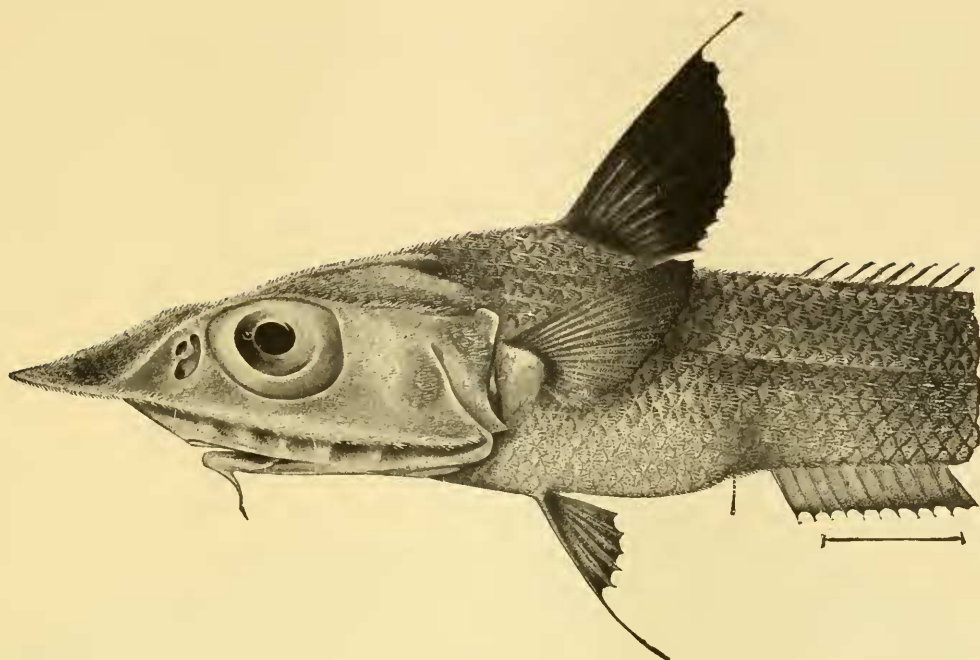


Fig. 388.

1208. *Cælorhynchus jordani* Smith & Pope. (Fig. 389).

Kiusiu-hige.

Cælorhynchus jordani Smith & Pope, Proc. U. S. Nat. Mus., XXXI, 1906, p. 494. fig. 11. Kagoshima.

Distrib.—Kagoshima.

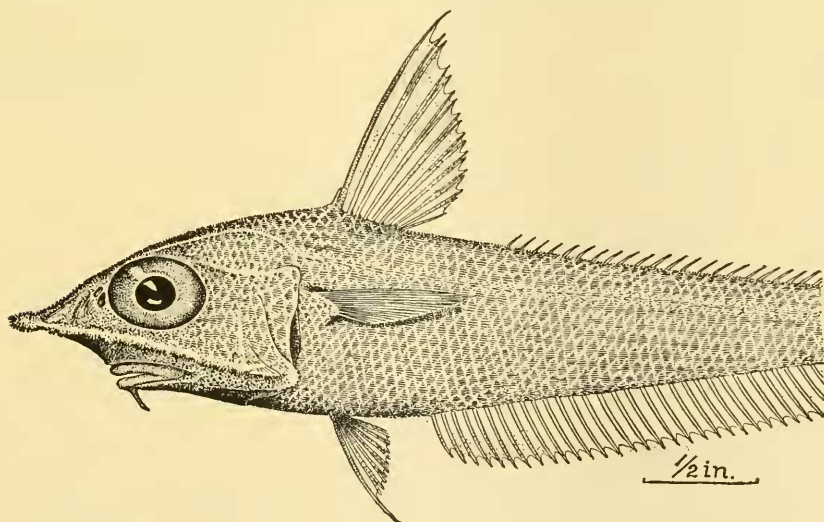


Fig. 389.

1209. *Cælorhynchus kishinouyei* Jordan & Snyder. (Fig. 390).

Mugura-hige.

Cælorhynchus kishinouyei Jordan & Snyder, Proc. U. S. Nat. Mus., XXIII,
1901, p. 376, pl. XX. Misaki, Sagami.

Distrib.—Misaki, Sagami.

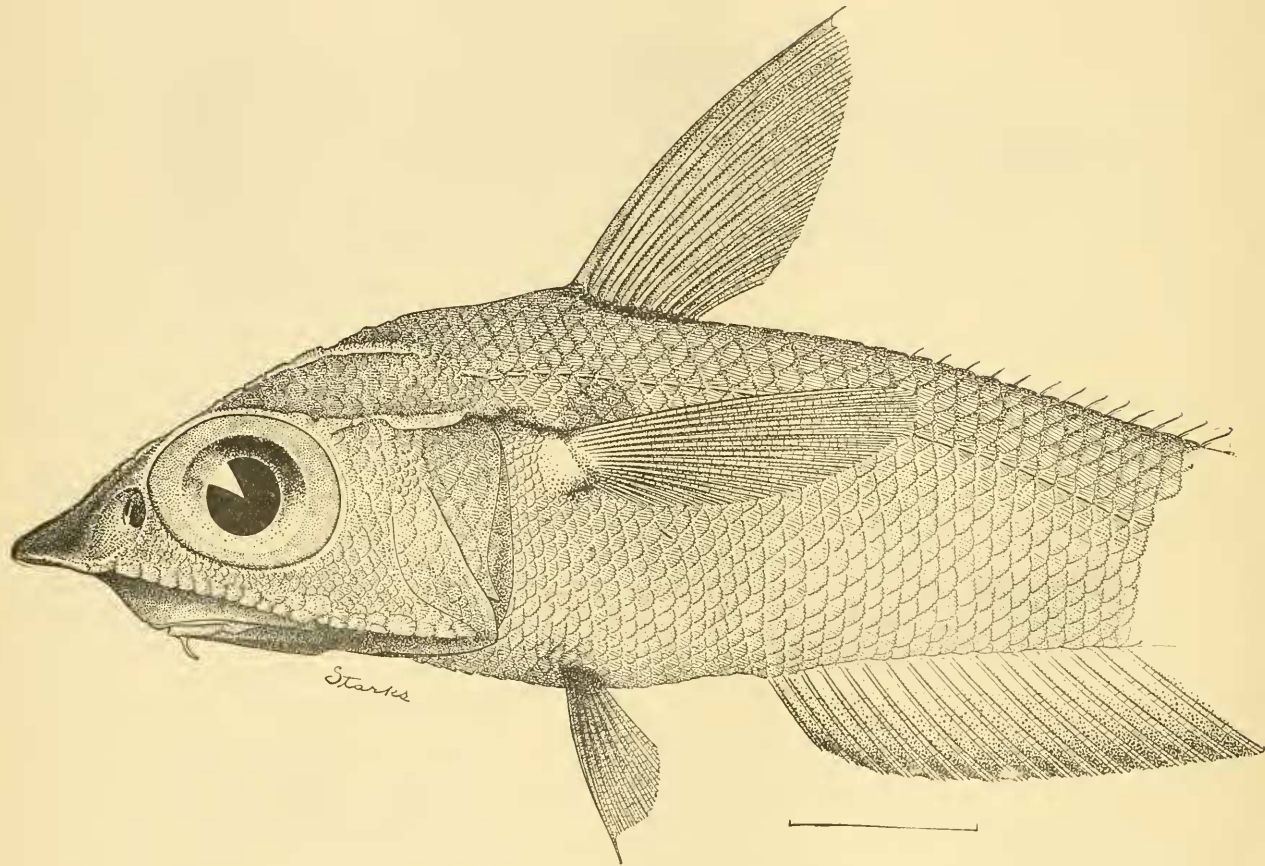


Fig. 390.

Genus *Trachonurus* Günther.*Trachonurus* Günther, Challenger Report, Deep Sea Fishes, XXII, 1887, p.

124.

Type *Coryphænoides villosus* Günther.1210. *Trachonurus villosus* (Günther).

Wata-hige.

Coryphænoides villosus Günther, Ann. Mag. Nat. Hist., XX, 1877, p.

441. South of Tōkyō ; south of the Philippines.
Distrib.—South of Tōkyō ; south of the Philippines.

Order TÆNIOSOMI.

Family LOPHOTIDÆ.

Genus *Lophotes* Giorna.

Lophotes Giorna, Mem. Acad. Trino, IX, 1803, p. 17.

Type *Lophotes capedianus* Giorna.

1211. *Lophotes capellei* Temminck & Schlegel.

Akanamada.

Lophotes capellei Temminck & Schlegel, Fanua Japonica, Poiss., 1845, p. 132,
pl. LXXI. Nagasaki.

Distrib.—Nagasaki.

Family VELIFERIDÆ.

Genus *Velifer* Temminck & Schlegel.

Velifer Temminck & Schlegel, Fanua Japonica, Poiss., 1850, p. 312.

Type *Velifer hypselopterus* Bleeker.

1212. *Velifer hypselopterus* Bleeker.

Kusa-aji.

Velifer Temminck & Schlegel, Fanua Japonica, Poiss., 1850, p. 312, Suppl.
tab. A. Nagasaki.

Velifer hypselopterus Bleeker, Acad. Neerl. Sci. Amst., 1879, p. 16.

Distrib.—Nagasaki.

Family TRACHYPTERIDÆ.

Genus *Trachypterus* Gouan.

Trachypterus Gouan, Hist. Poiss., 1770, pp. 104, 153.

Type *Cepola trachyptera* Gmelin.

1213. *Trachypterus ishikawæ* Jordan & Snyder.

Sako-gashira.

Trachypterus ishikawæ Jordan & Snyder, Journ. Coll. Sci. Imp. Univ. Tokyo,
Japan, XV, 1901, p. 310. Off mouth of Tōkyō Bay.

Distrib.—Off Tōkyō.

1214. *Trachypterus misakiensis* Tanaka.

Furisode-uwo.

Trachypterus misakiensis Tanaka, Journ. Coll. Sci. Imp. Univ. Tokyo, Japan, XXVIII, Art. 7, 1908, p. 52, pl. IV, fig. 2. Misaki, Sagami.

Distrib.—Misaki, Sagami.

1215. *Trachypterus ijimæ* Jordan & Snyder.

Yuki-furisode-uwo.

Trachypterus ijimæ Jordan & Snyder, Journ. Coll. Sci. Imp. Univ. Tokyo, XV, 1901, p. 311. Off mouth of Tōkyō Bay.

Distrib.—Off Tōkyō.

Family REGALECIDÆ.**Genus *Regalecus* Brünnich.***Regalecus* Brünnich, Nya Saml., III, 1788, p. 414.Type *Ophidium glesne* Ascanius.**1216. *Regalecus russellii* (Shaw).**

Ryū-guu-no-tsukai.

Gymnetrus russellii Shaw, Zool., IV, 1803, p. 195, pl. 28. Sea off Vizagapatam.

Distrib.—Japan Sea ; Sea off Vizagapatam.

Order PEDICULATI.**Family LOPHIIDÆ.****Genus *Lophius* (Artedi) Linnæus.***Lophius* Artedi, Genera Piscium, 1738, p. 63.*Lophius* Linnæus, Syst. Nat., 10th ed., 1758, p. 236.Type *Lophius piscatorius* Linnæus.**1217. *Lophius litulon* (Jordan).**

Kiankō ; Mizuko.

Lophionus litulon Jordan, Proc. U. S. Nat. Mus., XXIV, 1902, p. 364, fig. 1.

Tōkyō ; Wakanoura ; Tōtōmi Bay ; Matsushima Bay.

Distrib.—Matsushima Bay to Wakanoura ; Hakodate.

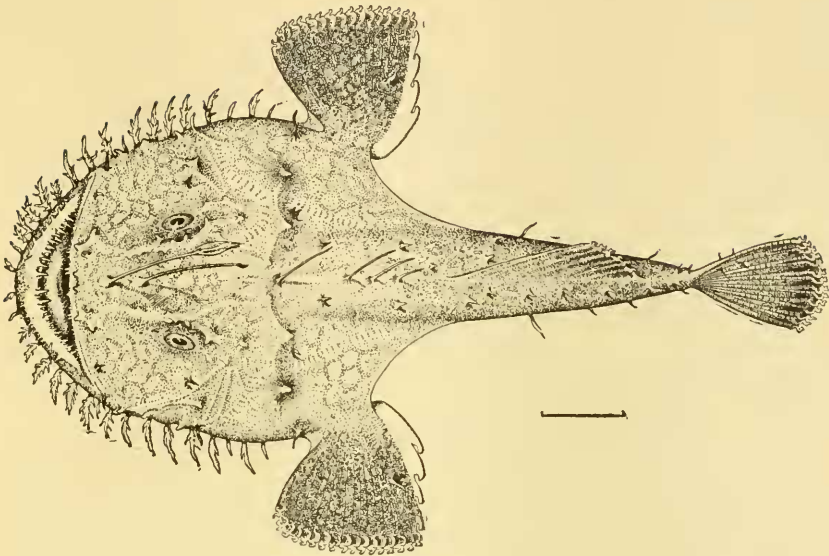


Fig. 391.

Genus *Lophiomus* Gill.*Lophiomus* Gill, Proc. U. S. Nat. Mus., V, 1882, p. 552.Type *Lophius setigerus* Vahl.**1218. *Lophiomus setigerus* (Vahl).**

Ankō.

Lophius setigerus Vahl, Skrivt. Naturh., IV, 1797, p. 214, pl. III, figs. 5,6.

China Sea.

Distrib.—China Sea ; Wakanoura ; Nagasaki ; Hakodate.

Family ANTENNARIIDÆ.**Genus *Antennarius* (Commerson) Lacépède.***Antennarius* Commerson, in Lacépède, Hist. Nat. Poiss., I, 1798, p. 421. (Footnote only ; not accepted by Lacépède).Type *Lophius chironectes* Lacépède.**1219. *Antennarius tridens* (Temminck & Schlegel).**

Izari-uwo.

Chironectes tridens Temminck & Schlegel, Fauna Japonica, Poiss., 1845, p. 159, pl. LXXXI, figs. 2,3,5. Nagasaki.

Distrib.—Tōkyō to Nagasaki.

1220. *Antennarius nox* Jordan. (Fig. 392).

Kuro-izari-uwo.

Antennarius nox Jordan, Proc. U. S. Nat. Mus., XXIV, 1902, p. 375, fig. 6.

Wakanoura ; Nagasaki. (Perhaps a black form of *A. tridens*).

Distrib.—Wakanoura ; Nagasaki.

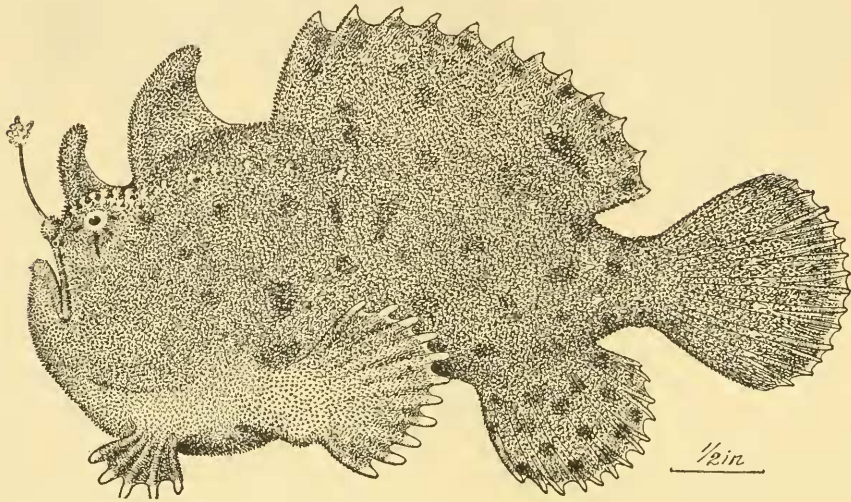


Fig. 392.

1221. *Antennarius sanguifluus* Jordan. (Fig. 393).

Beni-izariuwo.

Antennarius sanguifluus Jordan, Proc. U. S. Nat. Mus., XXIV, 1902, p.

374, fig. 5. Misaki, Sagami. (Perhaps a red form of *A. tridens*).

Distrib.—Misaki, Sagami.

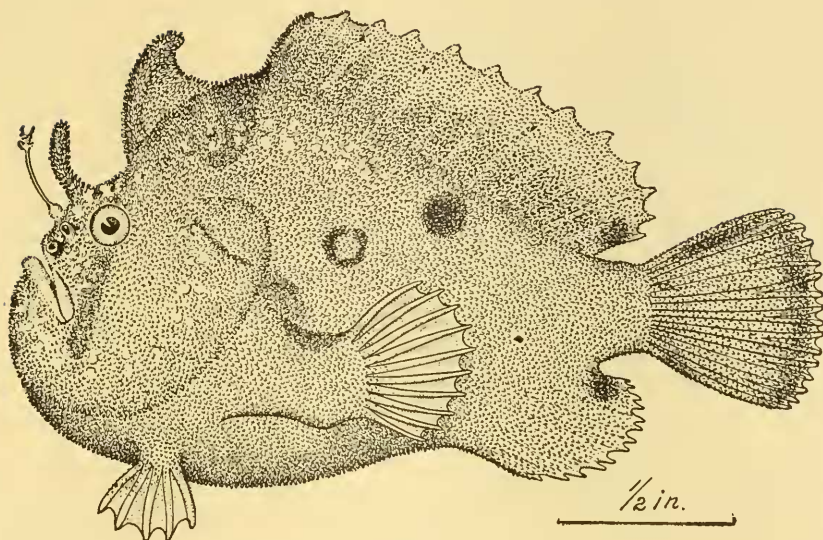


Fig. 393.

1222. *Antennarius scriptissimus* Jordan.

Sōshi-izariuwo.

Antennarius scriptissimus Jordan, Proc. U. S. Nat. Mus., XXIV, 1902, p. 373, fig. 4. Entrance of Tōkyō Bay. (Perhaps a much striped form of *A. tridens*).

Distrib.—Tōkyō Bay.

Genus *Pterophryne* Gill.

Pterophryne Gill, Proc. Ac. Nat. Sci. Phila., 1863, p. 90.

Type *Lophius histrio* Linnæus.

1223. *Pterophryne histrio* (Linnæus). (Fig. 304).

Hana-okoze.

? *Lophius histrio* Linnæus, Syst. Nat., 10th ed., 1758, p. 327. China. After *Lophius pinnis dorsalibus tribus* of Lagerstrom.

Distrib.—Misaki, Sagami ; Enoshima.

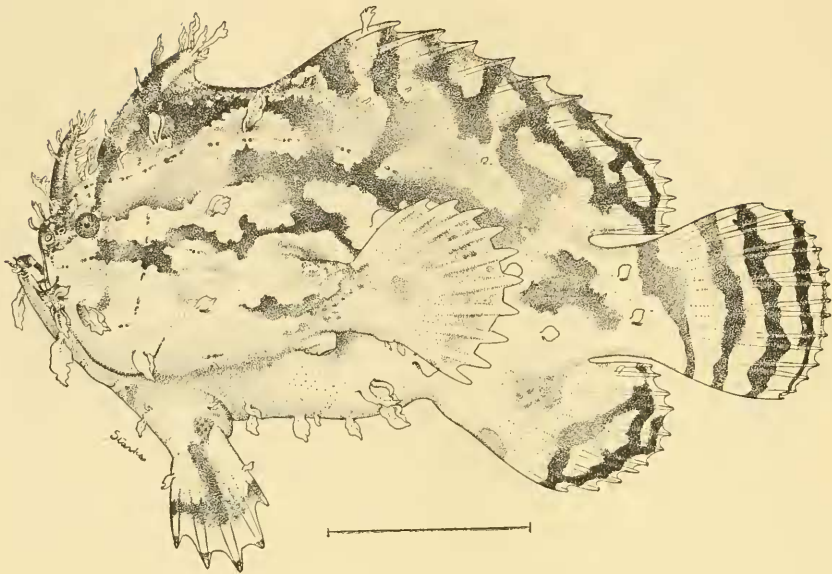


Fig. 394.

1224. *Pterophryne ranina* (Tilesius). (Fig. 395).

Kuro-hanaokoze.

? *Lophius raninus* Tilesius, Mém. Natur. Mosc., XI, pl. XVI, 1809. Japan.
Distrib.—Wakanoura.



Fig. 395.

Family CERATIIDÆ.**Genus Chaunax** Lowe.

Chaunax Lowe, Trans. Zool. Soc. Lond., III, 1846, p. 339.

Type *Chaunax pictus* Lowe.

1225. Chaunax fimbriatus Hilgendorf.

Husa-ankō ; Dainan-okoze.

Chaunax fimbriatus Hilgendorf, Gesellsch. Naturf. Freunde, 1879, p. 80. Off Tōkyō.

Distrib.—Sagami Bay ; Suruga Bay.

Genus Paraceratias Tanaka.

Paraceratias Tanaka, Journ. Coll. Sci. Imp. Univ. Tokyo, Japan, XXIII, Art. 5, 1908, p. 18.

Type *Ceratias mitsukurii* Tanaka.

1226. Paraceratias mitsukurii (Tanaka).

Mitsukuri-enaga-chōchin-ankō.

Ceratias (*Paraceratias*) *mitsukurii* Tanaka, Journ. Coll. Sci. Imp. Univ. Tokyo, Japan, XXIII, Art. 5, 1908, p. 18. Sagami Bay.

Distrib.—Sagami Bay.

Genus Corynolophus Gill.

Corynolophus Gill, Proc. U. S. Nat. Mus., 1878, p. 219.

Type *Himantolophus reinhardti* Lütken.

1227. Corynolophus reinhardti (Lütken).

Chōchin-ankō.

Himantolophus reinhardti Lütken, Kong. Dansk. Vidensk. Selsk., 1878, p. 321. Greenland.

Distrib.—Greenland ; off Port Shimoda, Idzu ; Sagami Sea.

Family OGCOCEPHALIDÆ.**Genus Halieutæa** Cuvier & Valenciennes.

Halieutæa Cuvier & Valenciennes, Hist. Nat. Poiss., XII, 1837, p. 455.

Type *Lophius stellata* Vahl.

1228. *Halieutæa stellata* (Vahl).

Akagutsu (Misaki, Sagami).

Lophins stellata Vahl, Skr. Naturh. Kjobenh., IV, 1797, p. 214, pl. III, figs. 3,4. Japan.

Distrib.—Tōkyō to Nagasaki.

Genus *Malthopsis* Alcock.*Malthopsis* Alcock, Ann. Mag. Nat. Hist., 1891, p. 26.Type *Malthopsis luteus* Alcock.1229. *Malthopsis tiarella* Jordan. (Fig. 396).

Fuuryū-uwo.

Malthopsis tiarella Jordan, Proc. U. S. Nat. Mus., XXIV, 1902, p. 378, fig. 7.
Suruga Bay.

Distrib.—Suruga Bay.

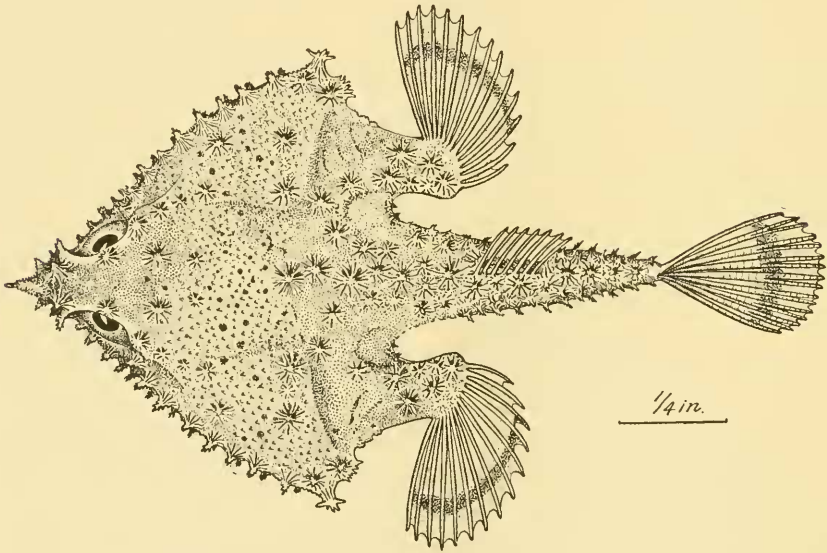


Fig. 396.

1230. *Malthopsis annulifera* Tanaka.

Wanuke-fuuryū-uwo.

Malthopsis annulifera Tanaka, Annot. Zool. Jap., VII, pt. I, 1908, p. 44.
Sagami Sea.

Distrib.—Sagami Sea.

ADDITIONS AND CORRECTIONS.

Page 11. After *Pristiurus pilosus* (Garman), insert the following :

22 (a). *Pristiurus hertwigi* Engelhardt.

Pristiurus hertwigi Engelhardt, Zool. Anz., Bd. XXX, June, 1912, p. 644.
Yokohama ; Aburatsubo near Misaki, Province of Sagami.

Page 15. After *Mitsukurina jordani* (Hussakof), insert :

37 (a). *Mitsukurina dofleini* (Engelhardt).

Scapanorhynchus dofleini Engelhardt, Zool. Anz., Bd. XXX, June, 1912, p. 644. Mayegawa in Sagami Bay.

Page 20. After *Etmopterus frontimaculatus* (Pietschmann), insert :

51 (a). *Etmopterus unicolor* (Engelhardt).

Spinax unicolor Engelhardt, Zool. Anz., Bd. XXX, June, 1912, p. 645. Sagami Bay.

Page 21. After *Centrophorus tessellatus* Garman, insert :

57 (a). *Centrophorus drygalskii* Engelhardt.

Centrophorus drygalskii Engelhardt, Zool. Anz., Bd. XXX, June, 1912, p. 645. Enoura in Sagami Bay ; Yokohama.

Page 51. The name *Lucifer* being preoccupied in Crustacea, Dr. Günther has substituted *Photonectes* for it, Hence, instead of *Lucifer* Döderlein, read :

Genus Photonectes Günther.

Lucifer Döderlein, Wieg. Archiv f. Naturgeschich., 1882, p. 26 (*Lucifer albipennis* Döderlein).

Photonectes Günther, Challenger Report, XXII, 1887, p. 212.

Type *Lucifer albipennis* Döderlein.

143. *Photonectes albipennis* (Döderlein).

Page 62. *Orthrias* Jordan & Fowler is probably identical with *Oreias* Sauvage. Instead of it, read :

Genus Oreias Sauvage.

Oreias Sauvage, Rev. Mag. Zool., XXXVIII, 1874, p. 334.

Orthrias Jordan & Fowler, Proc. U. S. Nat. Mus., XXVI, 1903, p. 769
(*Orthrias oreas* Jordan & Fowler).

Type *Orcias dabryi* Sauvage.

173. *Oreias oreas* (Jordan & Fowler).

Page 67. Instead of *Leucogobio* Günther, read :

Genus *Squalidus* Dybowski.

Squalidus Dybowski, Verh. z. b. Ges. Wien, XXII, 1872, p. 215.

Leucogobio Günther, Ann. Ac. Sci. Petersburg, 1895, p. 212 (*Leucogobio herzensteini* Günther).

Type *Squalidus chankacsis* Dybowski. The species given should stand as follows :

188. *Squalidus güntneri* (Ishikawa).

189. *Squalidus jordani* (Ishikawa).

190. *Squalidus mayepæ* (Jordan & Snyder).

191. *Squalidus biwæ* (Jordan & Snyder).

Page 192. In line 7 from bottom *Perca polymna* Linnæus was with doubt identified with *Amphiprion japonicus* Temminck & Schlegel. It is now clear that the two species are distinct.

Page 198. After *Lepidaplois perditio* (Quoy & Gaimard), add :

580 (a). *Lepidaplois macrourus* (Lacépède).

Himo-bera.

Labrus macrourus Lacépède, Hist. Nat. Poiss., III, 1801, p. 438, pl. IX, fig. 3.
Distrib.—Sagami Sea.

580 (b). *Lepidaplois atrolumbus* (Cuvier & Valenciennes).

Kokuten-bera.

Cossyphus atrolumbus Cuvier & Valenciennes, Hist. Nat. Poiss., XIII, 1839, p. 123.

Distrib.—Sagami Sea.

Page 209. Before **Genus *Chætodon*** (Artedi) Linnæus, insert :

Family CHÆTODONTIDÆ.

Page 223. *Lactophrys tritropis* Snyder is synonymous with *Ostracion stellifer* Bloch. Hence, change into :

658. *Lactophrys stellifer* (Bloch).

Hama-fugu.

Ostracion stellifer Bloch, p. 499, pl. 98.*Lactophrys tritropis* Snyder, Proc. U. S. Nat. Mus., XL, 1911, p. 535. Misaki, Sagami.

Distrib.—Lord Howe Is.; Sydney ; Misaki, Sagami.

Page 358. In line 11 from bottom, read *Sicyopterus* instead of *Sicydium* ; thus :

Genus *Sicyopterus* Gill.*Sicyopterus* Gill, Proc. Acad. Nat. Sci. Philad., 1860, p. 101.1036. *Sicyopterus japonicus* (Tanaka).

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